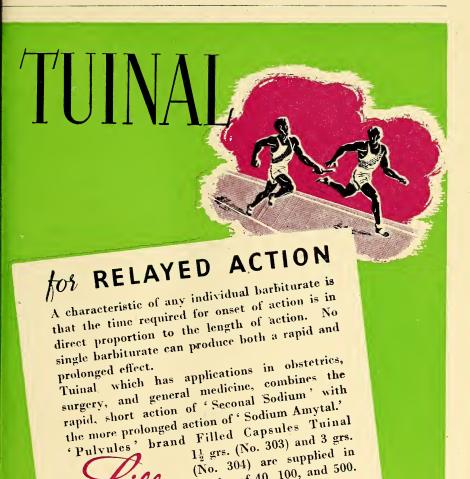
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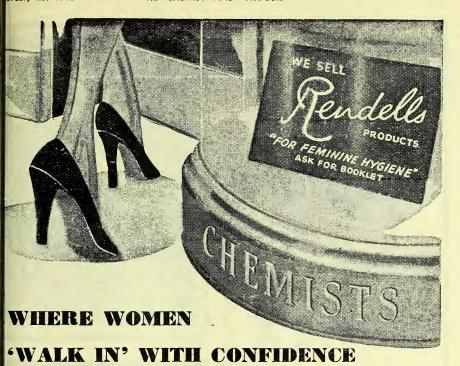
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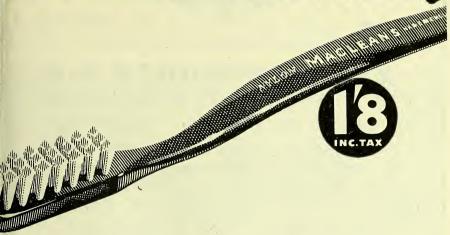
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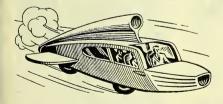
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#### 'ROCHE' NEWS IN BRIEF

#### 'Roche' 1948 Price List

he new edition of the 'Roche' Price ist is now ready and copies are obtainable n application.

#### Incidence of Purchase Tax

harmacists are reminded that the proosed removal of purchase tax on vitamin mpoules is not yet official, but as soon as aformation is available we shall give notice f the changes in the prices of 'Roche' reparations concerned.

#### Important Additions to List

number of important additions made the 'Roche' Price List include the ollowing:

Ferro-'Redoxon.' In this preparation are ombined ferrous iron and vitamin C in ugar-coated granules. Ferro-'Redoxon' s particularly indicated in certain types of anæmia occurring in children and is also suitable for administration to adults. The granules are issued in packings of two izes, 100 and 500 at 3/6d, and 15/- resbectively (purchase tax  $9\frac{1}{2}$ d, and 3/4d. extra). A new calcium preparation with ritamins C and D has been placed on the narket in the form of tablets under the name Calcium-D-'Redoxon.' These tablets are prescribed in rickets, dental caries, osteoporosis, during pregnancy, etc., and are issued in packings of 100, retailing at 6/6d., plus purchase tax, 1/5½d.—To meet the demand for high dosage of vitamin C, a new strength of 'Redoxon' tablets, 200 mg. in each, has been added to the list in packings of four sizes, 25, 100, 500 and 1,000. Previous strengths are still available.

#### Herpes Zoster

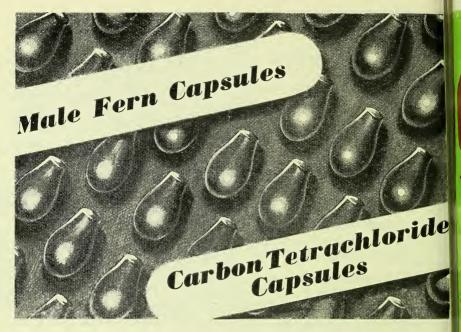
The authors of a recent article describe 23 cases of idiopathic herpes zoster treated with vitamin B<sub>1</sub> (aneurine, thiamin) and 'Prostigmin' and discuss the rationale, referring to the synergistic action of vitamin

B<sub>1</sub> and acetylcholine. As soon as diagnosis was established, an intramuscular injection of a mixture of 100 mg, vitamin B<sub>1</sub> and 0.5 mg. (1 c.c.) 'Prostigmin' was given, this being repeated every other day until the severe pain was relieved, usually 4 to 10 days. In the control series of 20 patients the average duration of symptoms was approximately six weeks. Six cases of neuralgia were similarly treated with "remarkably good" results. (N.T.St.J.Med., 1947, 47, 1997). Vitamin B<sub>1</sub> is issued as 'Benerva' tablets and ampoules of three strengths.

#### Treatment of Chilblains

The most important predisposing factors in the aetiology of chilblains are generally considered to be defective peripheral circulation with increased permeability of the capillary walls and diminished coagulability of the blood. As similar symptoms are often associated with vitamin K deficiency the author considers that it would seem logical to use the vitamin in the treatment of chilblains and suggests that individual susceptibility may be explained in terms of a mild vitamin K deficiency in certain individuals. In the series studied the dosage of vitamin K needed varied considerably and was not related to the severity of the condition: 20 mg, twice daily being most generally useful. In some cases a short course of treatment was sufficient to give protection for a long period, but in others it was necessary to continue the treatment to prevent a recurrence. Case histories of eight patients are given in whom the symptoms varied from mild to very severe. Of these, four obtained complete relief and the other four showed marked improvement. The response to treatment was better when the vitamin K was given by intramuscular injection than when given orally. (Brit.Med.7., 1947, ii. 689). ('Synkavit' tablets are issued in packings of 20, 100 and 500. in packings of 6 and 50).

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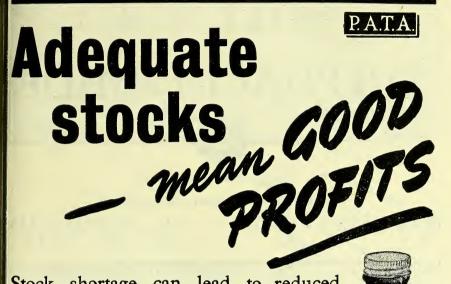
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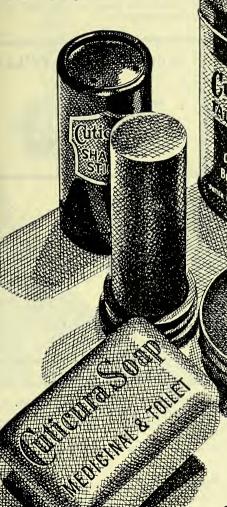
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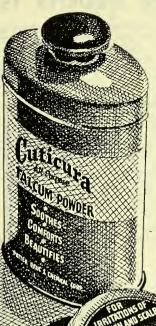
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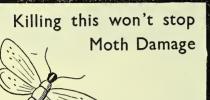




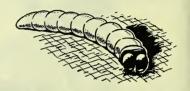
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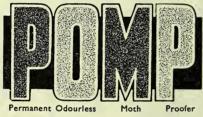
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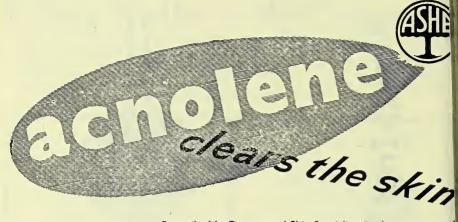
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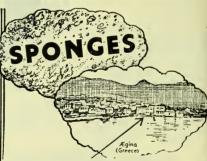
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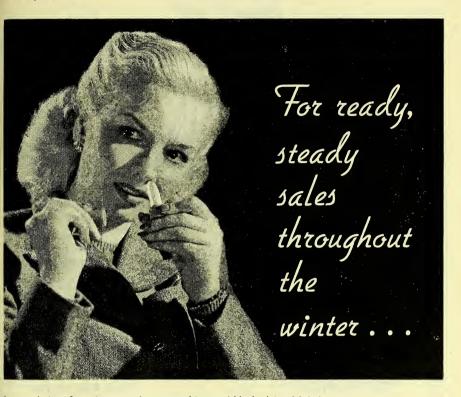
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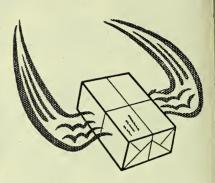
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FEBRUARY 28, 1948

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### NEWS OF THE WEEK

Retail Prices Index.—The Ministry of Labour's official index figure for retail rices at January 13 was 104, the same gure as at December 16, 1947.

Not an Authorised Person.—The Home Secretary announces that Mr. Richard Morton Geldart, M.R.C.S., L.R.C.P., Worling, is not an authorised person under the Dangerous Drugs Acts and Regulations.

Economy in Wrapping Paper. — Mr. Harold Wilson (President of the Board of Irade), speaking in London on February 24, appealed to traders to avoid the use of wrapping paper whenever possible.

Federation of Hospital Officers.—Folowing a meeting of over 400 chief administrative officers of voluntary hospitals in nany parts of Great Britain, a new organisation, the National Federation of Hospital Officers, is being set up with Mr. C. Carus-Wilson as provisional general secretary. Ten existing unions catering for hospital employees have protested against the formation of the new body, claiming that it can gain membership only at the expense of existing organisations.

Exchange Control and the Far East.—The Treasury have issued two new Exchange Control (Payments) Orders. The first (S.I. 1948, No. 220) prescribes the manner of payment for United Kingdom exports to Japan, and the second (S.I. 1948, No. 221) extends to Formosa the treatment given to China by a previous Order in respect of certain bank transfers and payment for United Kingdom exports. The new Orders came into operation on February 12.

Olive Oil Import Licences.—The Ministry of Food states that it is now prepared to recommend the issue of import licences for additional quantities of edible olive oil from sources and at prices to be approved by the Ministry. Distribution is to continue through the Olive Oil Importers' Association, 11 Ironmonger Lane, London, E.C.2, who, by arrangement with the Ministry, are the sole buyers of imported oil and who have been advised of the sources of supply and the prices acceptable to the Ministry. Importers should therefore make their offers direct to the Association before applying for import licences.

Poliomyelitis Film.—Over 17,500 doctors and 16,000 nurses have seen the Ministry of Health's film on the early diagnosis of acute anterior poliomyelitis.

Disposal of Radioactive Effluents.—In co-operation with the Medical Research Council's Committee on the Medical and Biological Applications of Nuclear Physics, and other bodies, the Ministry of Supply is taking precautions to ensure that the Thames water used at the Atomic Energy Research Establishment at Harwell, Berks, is returned to the river free from harmful radioactivity.

Insurance Reciprocity with N. Ireland.

—The Minister of National Insurance has recently issued regulations (S.I., 1948, No. 211) for complete reciprocity to exist between the separate schemes of national insurance which come into operation in Great Britain and Northern Ireland on July 5. Contributors who live sometimes in one country and sometimes in the other will be entitled to full benefits.

New Air Mail Service.—The following new air mail service for second-class mail (i.e., printed and commercial papers, samples, etc.) came into effect on February I:—Azores, threepence per ½ oz.; Argentine, Brazil, Chile, Uruguay, Paraguay, Falkland Islands, fourpence per ½ oz.; Bahamas, Bermuda, Bolivia, Cayman Islands, Colombia, Cuba, Jamaica, Peru, Trinidad and Tobago, Turk's and Caicos Islands, Venezuela, fivepence per ½ oz.

Students' Conference. - The British Pharmaceutical Students' Association is holding its sixth annual conference, to which the title "Operation Imperative" has been given, at 17 Bloomsbury Square, London, W.C.2, April 7-11. Representatives from most countries in Europe are being invited, and one of the aims of the conference is to set up a commission to promote an international federation of pharmacy students. Details and registration forms (which should be returned before March 25) are available from the secretary, B.P.S.A., 3 Endsleigh Street, London, W.C.1. main items in the conference programme are as follows:—April 7: Addresses by Professor H. Berry (Dean of the Pharmaceutical Society's College) and Mr. Charles Beaven (Parke, Davis & Co.). April 8: Addresses by Mrs. J. K. Irvine (president of the Society) and Mr. H. N. Linstead (secretary). April 9: Students' symposium session, including addresses by Messrs. R. Alther (president, Zurich Pharmaceutical Students' Association) and P. Falize (president, Brussels Pharmaceutical Students' Association). April 10: Addresses by Professor P. Dienes (professor of mathematics, University of London) and Mr. D. W. Hudson (a member of the Executive of the National Pharmaceutical Union). April 11: Business session and meeting of international delegates. The programme also includes social events and visits to factories and hospitals.

Whitley Council for Pharmacy.—At a meeting held at the Ministry of Health on February 23, it was agreed to form a Whitley Council for pharmacy, to provide a channel for negotiations, after the National Health Service Act has come into operation, on matters affecting the provision of pharmaceutical service, either by contractors or by salaried employees under a hospital authority or local authority. staff side" of the Council (representing contractors and pharmacists employed by hospital or local authorities) is to have twenty-one members. Six are to be appointed by the Guild of Public Pharmacists. and one each by the Association of Scientific Workers and the Confederation of Health Service Employees, to deal with matters affecting the interests of salaried pharmaceutical employees under hospital or local authorities. The contractors' interests are to be covered by three members appointed by the Pharmacutical Standing Committee (Scotland) and by ten members appointed through the National Pharmaceutical Union's Joint Contractors' (N.H.S.) Committee (which provides for direct representation of the Company Chemists' Association and the Co-operative Union). A detailed constitution for the Council has not yet been decided but the "staff side' is to be divided into two committees, one to deal with contractors' interests and the other to deal with the interests of those employed in hospital or local authority pharmaceutical services. The following officers of the "staff side" have been ap-The following pointed: -Chairman, Mr. D. Currie (Guild of Public Pharmacists); Vice-chairman, Mr. G. H. M. Graham (National Pharmaceutical Union); Secretary, Mr. H. Noble (deputysecretary, N.P.U.). A committee consisting of the chairman, vice-chairman and secretary, with Messrs. G. A. Mallinson and D. Sparshott, was appointed to draft a constitution and report to a full meeting of the "staff side" on April 3. Expenses are to be borne by the organisations in proportion to the number of their representatives on the Whitley Council,

### LOCAL NEWS

Staff Dinner. — Potters (London), Ltd., eld their annual staff dinner in London cently.

Staff Theatre Visit. — The staff of E. Ioss, Ltd., chemists, Feltham, Middlesex, ith their husbands and wives, formed a arty of 170 in a visit to a London theatre cently as guests of the directors.

Leper Colony "Adopted."—The Mannester Branch of the Catholic Pharmaceucal Guild has "adopted" the St. Francis eper Colony in Uganda and is planning send regular supplies of drugs and surcal dressings.

Blackpool Branch Lecture. — A lecture 1 vitamins of the B complex was given to be junior section of Blackpool Branch of 10 Pharmaceutical Society on February 17 y Mr. H. G. Hind, Ph.D. (Evans Medical upplies, Ltd.). A vote of thanks was prosed by Mr. F. Carter (vice-president, lackpool Branch) and seconded by Mr. A. idebottom.



NNUAL STAFF DINNER. — The office, works and warehouse staffs of Bradley & Bliss, Ltd., Reading, were guests of the company at an annual dinner recently, afterwards visiting a local pantomime.

Commercial Travellers' Schools.—Proosed new rules were approved, for presention to the High Court, at a Court ofdevernors of the Royal Commercial ravellers' Schools held in London on Febuary 21. The proposed rules provide for he admission of children of commercial ravellers on a contributory basis, but with riority given to orphans or necessitous hildren of commercial travellers on a nonontributory basis.

Southampton Drugs Lecture. — At a neeting of the Southampton Branch of the Pharmaceutical Society held on February 2, Ar, T, D, Whittet (chief pharmacist, Uni-

versity College Hospital) traced the use and application of drugs from early times to the present, and described some of his own experiences working on drugs not yet in common use. A vote of thanks was proposed by Mr. F. S. Leaper, seconded by Mr. W. M. Cox.

Council Member at Dewsbury.—Mr. T. Heseltine (a member of the Council of the Pharmaceutical Society) spoke on Council and its Functions" at a meeting of the Dewsbury Branch of the Society on February 19, Mr. H. Moorhouse in the chair. Mr. Heseltine described the work of the Committees of the Council and discussed the Society's College, commenting on the high cost per student. During the past twenty years, he said, students for the Chemist and Druggist Qualifying examination had been gradually superseded by those seeking higher diplomas and university degrees. The speaker concluded by assuring his listeners that the interests of the pharmacist under the National Health Service were being well looked after by the various bodies concerned. A vote of thanks was proposed by Mr. B. Pollard and seconded by Mr. A. Gill.

Mr. Brocklehurst in Newcastle.—There was a record attendance when Mr. E. A. Brocklehurst (a member of the Pharmaceutical Society's Council) addressed the Newcastle and Northumberland Branches of the Society and the National Pharmaceutical Union on February 5. Mr. Brocklehurst dealt with the progress of National Health Service negotiations, a scheme for clearing arrears in the pricing of National Health Insurance scripts, and negotiations with the Ministry of Food for distributing welfare packs of cod-liver oil and milk foods through chemists' shops. Disagreement on the latest offer made by the employers' side of the National Joint Industrial Council for Retail Pharmacy, he said, had caused salary negotiations to break down. In answer to questions, Mr. Brocklehurst explained the Council's new education programme and plans for the disposal of the Society's unfinished building in Brunswick Square. The Council's Law Committee too often received from inspectors reports that Fourth, Schedule prescriptions were not being dealt with correctly after they had been dispensed. Mr. Brocklehurst closed with an appeal for the Benevolent Fund, and a collection amounting to £2 2s. was taken. A vote of thanks was proposed by Mr. R. V. Atkins and seconded by Mr. H. Thom, Mr. T, Sisterson was in the chair,

### **OVERSEAS NEWS**

French Export Ban Relaxed.—Vaccines and sera are included in a range of products which may now be exported from France without a licence,

World Chemical Problems. — Problems confronting the chemical industries will be discussed by an Industrial Committee of the International Labour Organisation in Paris on April 6. The agenda will cover conditions of labour and the organisation of industrial relations.

French Perfumery Exports. — French exports of perfumes reached a value of fr. 2,033,057,000 in 1947. They included shipments to the U.S., valued at fr. 248,587,000; to Belgium, fr. 150,373,000; to Portugal, fr. 20,259,000; and to Switzerland, fr. 81,169,000.

New U.S. Insecticide.—A new insecticide for agricultural use named Thiophos 3422 has been developed by an American company and will be available commercially for use during 1948. The product, related to tetra ethyl pyrophosphate and hexaethyl tetra phosphate, is said to be effective against a wider range of insects than DDT and to be from five to twenty-five times as powerful. Moisture does not break it down and its effectiveness is thus retained for at least several days after application; it is said to be harmless to

trees, fruits and vegetables, and to be, moreover, not toxic to farm animals.

Trypanosomiasis Conference.—Methods of treating and preventing trypanosomiasis in human beings and in domestic animals were discussed by scientists from Europe and Africa at a conference convened by the French, Belgian and British Colonial authorities at Brazzaville, French Congo, recently. Plans were made for mapping Africa south of the Sahara to show the incidences of the disease and of the various species of tsetse fly which transmit it. It was agreed to establish at Brazzaville and Leopoldville a joint bureau for exchange of information on control methods, and to set up in Europe an international scientific committee to supervise research.

### **IRISH NEWS**

Irish Drug Association.—At a meeting of the Committee of the Irish Drug Association held on February 16 it was decided to make representations to a number of companies whose proprietary preparations showed a poor profit margin. The following were elected as members of the Association: Miss M. McSweeney, M.P.S.I., Cork; and Messrs. William Adams, M.P.S.I., Tullamore; Michael Spittle, M.P.S.I., Thurles; and J. A. Fogarty, L.P.S.I., Kilmallock, Limerick.

# NEWS IN PICTURES

BOMBAY COMPANY'S STAFF.—Directors and staff of Biddle, Sawyer & Co. (India), Ltd., Bombay. From a photograph sent in by Mr. H. A. Berens, a director of Biddle, Sawyer & Co., Ltd., London.

EDINBURGH GOLFERS'
WHIST DRIVE.—Prizes
being presented at the
annual whist drive and
dance of the Edinburgh
Chemists' Golf Club
held in Edinburgh on
row: Mesdames Muir
and D. Blair (receiving prize from Mrs.
J. P. Gibb); Messrs,
J. P. Gibb); Messrs,
J. P. Gibb); Raimes,
Clark & Co., Ltd.),
R. F. Muir (secretary),
and J. B. Grosset (treasurer). At rear: Mrs.
J. C. Somerville, Mr.
W. E. Herd, Bonnyrigg (captain of the
Club), and Mrs. Herd.





### TOPICAL REFLECTIONS

### urchase Tax on Medicaments

Your excellent suggestion (p. 245) of rawing the attention of members of Parament to the inequity of the purchase tax n "medicines and drugs" will, I hope, be idely adopted. The history of this tax iven on p. 242 is so much to the point hat anyone who needs a reminder on the ubject has only to read it. About forty ears ago I was present at a meeting held protest against some disability—I forget hat it was-imposed by the Copyright ct or Acts then in force. After a few peakers had had their say, a distinguished omposer remarked, amid laughter, that he case for reform was so obvious that he lid not propose to enlarge on the subject. This reminiscence prompts the inference hat I might follow the example then set. Dne consideration, however, that has not, think, been mentioned, may be added. How does the Chancellor of the Exchequer econcile the continuance of a subsidy on oods with the fact that medicaments are not merely not subsidised but are taxed? Let us, then, "set about" our respective nembers of Parliament and leave them in no doubt as to the strength of opinion on his subject in the drug and chemical ndustries and in pharmacy. Your offer to upply reprints will no doubt be welcomed and adopted very widely as providing the nost effective ammunition for this purpose.

### Limited Advertising

The announcement that the Federation of British Industries' scheme for a voluntary curtailment of advertising has been accepted for a year's trial by the Chancellor of the Exchequer (p. 246) is welcome. Any workable system of scaling down by advertisers is preferable to the thrusting of a bureaucratic ramrod into the mechanism. In offering a brief comment on this development I do so on the principle that onlookers see most of the game. Books on salesmanship (I have read several) seem to be of little practical value in the present difficulty. The opportunity may be taken, I suggest, by advertisers to make a fresh examination of their styles of advertising while the present shortage of space continues. What improvements can be made in layout and "message"? For comparison with older types of usage I have taken from its shelf my copy of your Special Issue of July 27, 1907, which had 206 quarto pages of advertisements and

some insets. Put by the side of your latest comparable Special Issue, that of June 24, 1939, one difference strikes a reader who, like me, has no expert knowledge of the subject. In 1907 there was a tendency on the part of some advertisers to put on a page more text that it could easily carry. In the 1939 Special Issue that trait had almost entirely disappeared, and the spacing was more artistic. This is a simpleperhaps an almost too obvious—illustration of the possibilities. If not much can be done in such directions at the moment with the space available, advertisers can be preparing for the day when supplies of paper will once more be on the adequate level of former days.

### Conference Rules

A subcommittee of the British Pharmaceutical Conference Executive has reported, apropos of the relation of the Conference to the Pharmaceutical Society, that the existing rules of the Conference appear, with small modifications, to be suitable (p. 230). I venture to hope that the suitability of these rules will ensure their continuance with the smallest of modifications. To those who remember the Conference as it was before the Pharmaceutical Society annexed it, a prospect of further changes in its constitution is unpromising. At the time of the annexation in 1922 there was a fear, as a well-known pharmacist put it to me, that some loss of the old freedom was inevitable. When the original meeting for establishing the Conference was called at the instance of the Society in 1863, its constitution was made as liberal and its membership as inclusive as possible. Some suspicion was aroused by the fact that its first officials were connected with the Society; but THE CHEMIST AND DRUG-GIST took a different view, and heartily supported the Conference. Subsequent history shows that up to 1922 the character of the meetings remained fairly constant; and though well aware that the clock cannot be put back, I for one have never felt quite so much at home at the modern type of gathering as at the old. This fragment of history is introduced for the purpose of emphasising the maxim of leaving alone what is well. In recent years the Conference has become acclimatised in its new habitat: I believe that the less it is pulled about, the better. A second upheaval might prove to be more serious than the first. Xrayser

### **COMPANY NEWS**

PIN-KAN WHITE, LTD. (P.C.).—Capital £500. To carry on the business of manufacturing and dispensing chemists and druggists, etc. Ernest Layland, director. R.O.: 9 Infirmary Street, Bolton.

PROCTORS PHARMACIES, LTD. (P.C.).—Registered in Edinburgh. Capital £2,500. James T. Proctor, M.P.S., and Alexander G. Anderson, directors. R.O.: 9 Victoria Street, Edinburgh.

Meacher Higgins & Thomas, Ltd. (P.C.).— Capital £4,000. To carry on the business of chemists and druggists, etc. Marion Thomas, director. R.O.: 105A Crawford Street, London, W.I.

BRITISH PERMANENT STARCH CO., LTD. (P.C.).— Capital £1,000. To carry on the business of manufacturing chemists, etc. Rudolf Detsinyi, director. R.O.: 12 Henrietta Street, London, W.C.2.

CORBY PHARMACY, LTD. (P.C.).—Capital £1,000. John M. Beaumont, M.P.S., William C. Murray and Kathleen E. Murray, directors. R.O.: High Street, Corby, Lincs.

T. H. Giblin & Co., Ltd. (P.C.).—Capital £200. To carry on the business of chemists, etc. Thomas H. Giblin, M.P.S., and Hugh Giblin, directors. R.O.: 3 Stanley Street, Liverpool, 1.

IAN CHEMICAL Co., LTD. (P.C.).—Capital £100. To carry on the business of chemists, druggists, etc. Thomas F. Bruce and Eileen Bruce, directors R.O.: 14 Queen Victoria Street, London, E.C.4.

VEJELOID, LTD. (P.C.).—Capital £1,000. To carry on the business of manufacturing chemists, etc. Philip S. Powling and Joseph F. Byrne, directors. R.O.: Broadmead House, Panton Street, London, S.W.1.

BILSON & FRIENDSHIP, LTD. (P.C.).—Capital £15,000. To carry on the business of chemists and druggists, etc. Arthur L. Friendship, M.P.S., director. R.O.: 1 Lansdowne Crescent, Bournemouth.

W. James Davies & Johnson (Manufacturers), Ltd. (P.C.).—Capital £5,000. To carry on the business of manufacturers of and dealers in medicated confectionery, etc. William J. Davies and Hubert C. K. Johnson, directors. R.O.: Maindy Works, North Road, Maindy, Cardiff.

CYPRANE, LTD. (P.C.).—Capital £2,000. To carry on the business of designers, manufacturers and repairers of and dealers in anæsthetic, respiratory, surgical, veterinary and medical apparatus, instruments, supplies and appliances, scientific equipment, drugs, chemicals, etc. William Edmondson, Wilfrid Jones and George Wellesley, directors. R.O.: Holmfield, Oxenhope, Keighley, Yorks.

COATES & COOPER, LTD. (P.C.).—Capital £10,000. To carry on the business of manufacturers and distributors of pharmaceutical products carried on by a company of same name (now in voluntary liquidation). Richard R. Coates, Dorothy M. Coates, George A. Coates, M.P.S., and Charles G. Reid, directors. R.O.: 62 London Wall, London, E.C.2.

TRANS-CHEMICALS, LTD. (P.C.).—Capital £50,000. To carry on the business of wholesale and retail dealers in and distributors, importers and exporters of fine and heavy chemicals, intermediates, phar-

maceuticals, dyes, pigments, plastics, mineral oil and products and derivatives thereof, lacquer, varnishes, cosmetics, insecticides, etc. First directors are to be appointed by subscribers. Solicitors: Parker, Garrett & Co., London, E.C.3.

• CHARLES MIDGLEY, LTD.—Mr. H. A. Mason and Mr. W. A. Kinnear (directors of Evans Medical Supplies, Ltd.) have been appointed directors.

Borax Consolidated, Ltd.—Net profit for the year ended September 30, after deductions for depreciation and taxation, amounted to £339,770 against £137,584 for the previous year. Final ordinary dividend is 6 per cent., making 12 per cent. for the year (against 10 per cent.), plus an unchanged bonus of  $2\frac{1}{2}$  per cent.

ENO PROPRIETARIES, LTD.—It is announced that 96.78 per cent. of the deferred ordinary shareholders in Veno Drug Co., Ltd., and 91.23 per cent. of 6½ per cent. preference shareholders in Yeast-Vite, Ltd., have accepted the Eno offer (see C. & D., February 7, p. 168) to buy their shares. The Beecham Group has accepted the offer made in respect of its holdings in the two companies.

ASCOTTS PHARMACIES, LTD.—Net profit for the year ended September 30, 1947, after deductions for depreciation, etc., and tax, amounted to £13,949, against £13,023 in the previous year. The directors' report states that two years' arrears of preference dividends, to December 31, 1942, were paid during the year (£3,850), and payment is recommended of three further years' preference dividends accrued to December 31, 1945 (£5,775), leaving £4,324 to be carried forward. Mr. H. W. Sydenham, the director retiring by rotation, offers himself for re-election.

### **BUSINESS CHANGES**

VITAMINS, LTD., have appointed Mr. M. Silke technical representative in Eire.

THE Glasgow address of Oxygenaire (London), Ltd., is 55 Deepdene Road, Westerton, Dumbartons, and not as previously stated.

MR. JOHN REID MOFFATT, M.P.S., has become proprietor of the business of W. Moffatt & Son, chemists, 544 Durham Road, Low Fell, Gateshead-on-Tyne, 9.

D. A. CORCORAN & Co., LTD., have taken over the business of S. Tatlow & Co. (Eire), Ltd., 139 Upper Dorset Street, Dublin, which they have regranised and which has been transferred to larger premises at 18 Fitzwilliam Lane, Dublin.

MR. A. L. BARTLETT, M.P.S., Eckford, By-pass Road, Billingham-on-Tees (representative for Evans Medical Supplies, Ltd., in the North and East Ridings of Yorkshire) has now taken over the Tees-side area (Middlesbrough, Thornaby, Stockton, Norton, Billingham and the Hartlepools).

VERENIGDE PHARMACEUTISCHE FABRIEREN, N.V. (United Pharmaceutical Works, Ltd.), is the title adopted for a company formed by the merger of Zwitsal Fabrieken and Nederlansche Fabriek van Pharmaceutisch-Chemische Producten N.V., v/h. A. A. Bonnema, Apeldoorn, Holland.

### THE WEEK IN PARLIAMENT

By a Member of the Press Gallery, House of Commons

THE MINISTER OF HEALTH (Mr. Aneurin Bevan) was asked by Mr. D. Lipson on February 19 whether he would now invite. representatives of the British Medical Association to meet him, so that a further attempt might be made to ensure that the National Health Act would have the cooperation and goodwill of the doctors when it began to operate on July 5.

MR. BEVAN: I remain ready to cooperate closely with any professional spokesmen who want, with me, to make the new

Service a success.

Mr. Lipson then asked if the Minister could go a little further and invite representatives of the doctors to meet him. Mr. Bevan's reply was that, while all wanted a victory for common sense, he was not entitled to suggest that Parliament could surrender any position it had taken up. He answered further questions by Sir HENRY MORRIS-JONES, COLONEL LIPTON and Mr. LIPSON by saying that he had always been ready to meet the representatives of the medical profession, and was still ready if they had any fresh suggestions to make.

### Optical Profession Under N.H.S.

Mr. E. A. HARDY asked the Minister of Health on February 19 when he would be in a position to tell the House and the Association of Optical Practitioners the conditions of service provided for the optical profession in the new Health Service. Mr. Bevan said an announcement would be made so soon as discussions with the representative bodies had been concluded; he could not yet say when that would be.

### Voluntary Reduction in Advertising

MRS. B. AYRTON GOULD asked the President of the Board of Trade, on February 19, whether he had had any progress report from the working committee set up by the Federation of British Industries to work out methods of achieving a reduction in the volume of advertisements by voluntary means. Mr. HAROLD WILSON: The Committee have drawn up and presented to me a plan of action which the Chancellor of the Exchequer and I regard as workmanlike. We have accordingly agreed, provided that the scheme is endorsed by a comprehensive number of trade bodies and individual concerns, to give it a trial for a

During this time the Federation of British Industries will keep me fully informed of the working of the scheme and of the results achieved by it. Details of the scheme have been published by the Federation today.

### Distribution of Hearing Aids

MR. R. DE LA BERE asked the Minister of Health whether he could give some explanation of the delay in manufacturing the Government deaf-aid apparatus, and asked for an assurance that the matter was not being delayed until July 5. Mr. BEVAN replied: I do not accept the imputation of delay. The design and manufacture of the aids and of the necessary testing apparatus have been pursued with all possible speed, but we do not expect to be able to begin distribution before July 5.

### Committee on Leasehold Tenure

Mr. Herbert Morrison (Lord President of the Council), in answer to questions in the House of Commons on February 23, announced the appointment of a committee, with Lord Uthwatt as chairman, to consider questions affecting leases of residential and business premises in England and The principal duties of the com-Wales.

mittee are to be to consider the following:

(1) Whether an occupying tenant of residential or other premises should be given the right to purchase compulsorily the freehold and any other

prior interests in the premises.

(2) Whether an occupying tenant of business premises should be given security of tenure such as is at present enjoyed by tenants of premises which are subject to the Rent Restriction Acts. (3) Whether it is desirable and practicable to

control rents charged for business premises. (4) Whether the rights of a landlord to impose and enforce covenants to repair should be further

restricted.

(5) Whether further provision should be made to give tenants a right to compensation for improvements on the termination of their tenancies.

#### Medical Research

THE LORD PRESIDENT OF THE COUNCIL (Mr. Herbert Morrison) informed Mr. S. P. VIANT, on February 20 that, in the financial year 1946-47, approximately £130,000 of the parliamentary grant for medical research was used for projects of a clinical nature. The remainder was expended on projects mainly involving laboratory work of various kinds and on administration.

### DEATHS

Bowes.—On February 13, Mr. John Arnold Bowes, L.D.S., R.C.S., Ph.C., 28 South Side, Clapham Common, London, S.W.4. Mr. Bowes qualified as a chemist and druggist in 1901 and passed the Pharmaceutical Chemist examination the same year. For about forty years he was in practice as a dentist at Clapham Common. His widow, Mrs. I. M. Bowes (née Bayley) is a Pharmaceutical Chemist.

Browne.—On February 6, Mr. William Browne, 76 Raglan Court, Wembley Park, Middlesex, formerly of Hampstead, London, aged seventy-nine. Mr. Browne qualified in 1893, and was for a time an examiner in pharmacy for the Pharmaceutical Society. He was a brother of the late Mr. Frank Browne, Ph.C., F.R.I.C., Ealing.

DYER.—On February 12, Mr. Bernard Shirley Dyer, D.Sc., F.R.I.C., I Lower Terrace, Hampstead, London, N.W.3, a former secretary and president of the Society of Public Analysts, aged ninetyone.

FOWLER.—In April 1947, Mr. Frank Fowler, M.P.S., 65 Birkbeck Road, Enfield, Middlesex. Mr. Fowler qualified in 1896.

Hodges.—On December 19, 1947, Mr. Francis Sully Hodges, M.P.S., 185 Redland Road, Bristol. Mr. Hodges qualified in 1904.

Marshall. — On February 4, Mr. George Glenwell Marshall, M.P.S., 288 Chillingham Road, Heaton, Newcastle-on-Tyne, aged fifty-four.

MARTIN.—On January 24, Mr. Frederick John Martin, 43 St. Lawrence Avenue, Worthing, Sussex, aged seventy-four.

McBain.—At 8 Vale Road, Haywards Heath, Sussex, recently, Mr. John Robert McBain, M.P.S., aged forty-two. A native of Aberdeen, Mr. McBain was for over five years with John Innes & Co., chemists, Elgin, but came south to take up managerships with Timothy Whites & Taylors, Ltd., first at Haywards Heath and later at Lewes. During the 1939-45 war he served as a sergeant in the Royal Army Medical Corps.

MICHIE.—At his home, Stanleybank, Milnathort, Kinross-shire recently, Mr. John Thomas Michie, M.P.S. Mr. Michie, who qualified in 1917, was for over thirty years in business in Milnathort, and was active until a few days before his death. He is survived by his widow.

Moore.—At the Montreal general hospital, Canada, on January 26, Professor Alexander B. J. Moore, Department of Pharmacy, McGill University, Montreal, from its inception in 1917 till its closing in 1932, aged eighty-two. Born in Ireland, Professor Moore emigrated to Canada about 1880 and graduated in 1886 from the Montreal College of Pharmacy. In 1890 he became a special lecturer on the college staff and later dean and professor of materia medica, botany, pharmacy and toxicology. He served for a number of years as chief chemist to the National Drug Co.

Moore. — At Stirling, on January 31, Mrs. Helen Donaldson, widow of the late Mr. Thomas Moore, M.P.S., Stirling.

PITT.—Recently, Mr. Frank Pitt, M.P.S., 192 Overdale Road, Downend, Bristol. Mr. Pitt qualified in 1920.

Rose.—On February 16, Mr. Frederick Sandford Rose, M.P.S., 88 Addiscombe Road, Croydon, Surrey, aged sixty-four.

Vadboncoeur.—On February I, Mr. Edmond Vadboncoeur, founder of the Quebec College of Pharmacy, Canada, aged sixty-five. Mr. Vadboncoeur was an honorary Doctor of Pharmacy of the University of Montreal.

WHYTE. — At 31 Hayswell Road, Arbroath, Angus, Scotland, on February 13, Mr. James S. Whyte, M.P.S., aged ninety-three. A native of Montrose, Mr. Whyte removed to Arbroath to become an assistant to Mr. William Reid, 57 Guthrie Port, on whose retirement he took over the business, which he conducted for over sixty years prior to his retirement in 1947. Mr. J. S. Whyte was secretary of the Arbroath Branch of the Pharmaceutical Society and honorary vice-president of the Arbroath Beekeepers' Association and a leading member of the Natural History and Scientific Association. For many years he was an office-bearer at Knox Church. He is survived by his son (Mr. J. A. Whyte, M.P.S.) and two daughters. The business is being conducted by his son.

WILKINSON.—At the Victoria Hospital, Romford, Essex, on February 11, after a long illness, Mrs. Barbara Agnes Wilkinson, M.P.S., wife of Mr. J. H. Wilkinson, M.P.S., 13 The Chase, Romford, aged thirty-one. Mrs. Wilkinson was the daughter of the late Mr. H. Bodsworth, M.P.S.

### PERSONALITIES

MR. WILLIAM THYNE (managing director of A. & R. Scott, Ltd., Colinton, Midlothian) has been appointed a director of Clydesdale Bank, Ltd.

MR. E. J. WILKS is retiring from the representative staff of Thomas Kerfoot &



Co., Ltd., after a long record of service with the company. In 1894 he was appointed as the company's first London representative, and he has since become a familiar figure in pharmacies throughout the country. Mr. Wilks' address will be: Links House Hotel, Bexhill-on-Sea.

MR. W. E. WOOLLEY, J.P. (a director of Cupal, Ltd., manufacturing chemists, Blackburn), gave a presidential address, on February 18, to Blackburn Chamber of Commerce.

MR. KENNETH B. STEWART, M.P.S., has been presented with a gift of money by staff colleagues on relinquishing control of the pharmacy department at Stirling Mental Hospital after seven years' service.

Mr. Horace Wright, M.P.S., Edgware, Middlesex (vice-president of Hendon and Edgware Branch of the Pharmaceutical Society), has presented one of his own paintings to the town council of Stamford, Lincs, his native town.

PROFESSOR E. B. CHAIN, a member of the Oxford team of penicillin workers, was invested with the insignia of Commander of the Legion of Honour, recently, by Professor Pasteur Vallery-Radot, grandson of Louis Pasteur.

MR. H. N. LINSTEAD, O.B.E., M.P. (secretary of the Pharmaceutical Society), was the author of a letter published in "The Times" on February 18 suggesting arbitration as a means of resolving the "deadlock" between the Minister of Health and the doctors.

Mr. Harold Hinde, Bulawayo, Rhodesia (who qualified as a chemist and druggist in 1920 after an apprenticeship in Whitehaven, Cumberland, England), has prepared a citrus pectin containing vitamins C and P for the treatment of capillary bleeding. The use of the preparation in hæmophilia is being investigated. Until his retirement in November 1947, Mr. Hinde had been employed with the Rhodesian Railways organisation, as its chief chemist.

Dr. Linus C. Pauling (chairman of the division of chemistry and chemical engineering, California Institute of Technology, Pasadena, California, U.S.A.) is president-elect of the American Chemical Society for 1948. From January to June of this year Dr. Pauling is guest professor at Oxford.

### COMING EVENTS

Items for inclusion under this heading should be sent in time to reach the Editor not later than first post on Wednesday of the week of insertion.

### Monday, March 1

SOUTHAMPTON BRANCH, PHARMACEUTICAL SOCIETY, Polygon Hotel, at 7.30 p.m. Mr. L. Stephens on "Sex Hormones and their Clinical Use."

LEICESTER BRANCH, NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, Board Room, Leicester Royal Infirmary, at 7.30 p.m. Speaker: Miss Bell (matron of the Infirmary).

WEST KENT BRANCH, PHARMACEUTICAL SOCIETY, Central Library Hall, Beckenham, at 8 p.m. Mr. L. K. Sharp, B.Sc., Ph.C., on "Chemotherapy and the Syllabus."

CHELSEA POLYTECHNIC, CHEMICAL SOCIETY, Manresa Road, London, S.W.6, at 5.15 p.m. Lecture by Dr. G. E. Harrison (Atomic Energy Research Establishment).

ROYAL SOCIETY OF ARTS, John Adam Street, London, W.C.2, at 4.30 p.m. Dr. E. K. Rideal, F.R.S., on "The Physics and Chemistry of Colloids" (first of three weekly lectures).

### Tuesday, March 2

ILFORD AND WEST ESSEX, WALTHAMSTOW and WEST HAM BRANCHES, NATIONAL PHARMACEUTICAL UNION, and EAST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, Angel Hotel, High ROAD, Ilford, at 8 p.m. Mr. G. A. Mallinson, O.B.E. (secretary, N.P.U.), cn "The National Health Service." Service.

### Wednesday, March 3

HARROW BRANCH, PHARMACEUTICAL SOCIETY, Bridge School, Station Road, Wealdstone, at 7.30 p.m. Mr. F. C. King on "Surgical Instruments."
WEST KENT BRANCH, PHARMACEUTICAL SOCIETY, Green Man Hotel, Bromley Road, London, S.E.6. Annual dance.

#### Friday, March 5

SOUTH-WEST LONDON CHEMISTS' ASSOCIATION, Carpenter's Restaurant, 3 The Pavement, London, S.W.4 (opposite Clapham Common Underground station), at 7,30 p.m. Mr. D. G. Ardley, M.P.S., on "Penicillin and other Antibiotics."

LIVERPOOL CHEMISTS' ASSOCIATION is holding its annual dinner at the Adelphi Hotel on Wednesday, March 31, at 7 p.m. Tickets 17s. 6d. each.

LEEDS DISTRICT WINDOW DISPLAY COMPETITION (organised by the Crookes Laboratories, Ltd.), March 1-13.

### TRADE NOTES

Cream Shampoo.—Introduced for dry hair, Bandbox cream shampoo is being nationally advertised by the manufacturers, Ashe Laboratories, Ltd., 120 Victoria Street, London, S.W.I, from March I.

In Full Supply.—The D.D.D. Co., Ltd., 3 Fleet Lane, London, E.C.4, state that DDD balm and DDD prescription, which are being extensively advertised in the national, provincial and periodical Press, are in full supply, through wholesalers.

New Penicillin Pack. — Glaxo Laboratories, Ltd., Greenford, Middlesex, announce that a new pack containing twenty penicillin lozenges in a tube of extruded aluminium became available on February 23. Usual discounts apply.

Name Change.—Howard-Taylor, Ltd., Balham High Road, London, S.W.12, have renamed as Ven-Vites their chocolate-coated multi-vitamin product formerly known as Vol-Vite. Vol-Vite stocks may be exchanged through wholesalers or direct.

New Liquid Shampoo.—A. & F. Pears, Ltd., Isleworth, Middlesex, announce the introduction of Gloria liquid shampoo, for which a number of advantages are claimed (see announcement elsewhere in this issue). An advertising campaign is in progress.

American Tour.—Mr. E. Danischewsky, managing director of Abietsan Manufacturing Co., Ltd., Concordia Road, London, S.E.25, is leaving for the United States and Canada on March 5. In a trip lasting 6-8 weeks he will renew contacts with clients and promote sales,

Toiletries in Plastic.—O. & M. Kleemann, Ltd., Mappin House, 156 Oxford Street, London, W.I, have prepared a handsomely illustrated loose-leaf catalogue in full colour to advertise the many plastic fancy and toilet items of which they are manufacturers. Details of the items are given in English, French and Spanish.

Export Outlets in Canada and U.S.— F. W. Woolworth & Co., Ltd., New Bond Street House, London, W.I., invite British manufacturers seeking export markets in the U.S. and Canada for goods suitable for retailing to write to their export manager, giving details (including export and home prices, ex factory).

Plastic Stirring Rod.—Clay & Abraham, Ltd., 87 Bold Street, Liverpool, 1, have introduced an unbreakable, acid- and alkaliproof plastic stirring rod for dispensary use. The rod is flat-sided for use in crushing small lumps, crystals, etc., against the side of a measure; it may be used in warm but not in boiling water.

Grain-weevil Control.—Highly successful results are reported in a "Pyrethrum Bulletin" issued by Mitchell Cotts & Co., Ltd., Winchester House, Old Broad Street, London, E.C.2, in a still-continuing series of experiments in protecting grain from the ravages of weevils and beetles.

Display "Basket." — A piece of display material issued by J. C. & J. Field, Ltd., 123 The Broadway, Wimbledon, London, S.W.19, is in the form of a "basket" to hold envelopes of Field's lavender shampoo (the price of which is now 7d. and not



as shown). The company has also issued a new display piece for Field-day brushless shaving cream, the carton of which bears on one face a part of a triangle design which is completed with other faces of two additional cartons.

pH Measurement.—A 44-page booklet entitled "Hydrogen Ions," issued by Marconi Instruments, Ltd., St. Albans, Herts, deals with pH measurement, with particular reference to the glass electrode. The booklet describes methods of determining hydrogen-ion concentration by the use of indicators and by electrometric methods.

Agents for Distribution. — John McGuffie & Co., Ltd., 10 Castle Street, Liverpool, 2, announce that Rodmill Chemical Co., Ltd., Liverpool, 3, have been appointed sole wholesale distributors for Castellan No. 10 cough mixture and Castellan children's cough syrup.

Price-freezing.—Boots Pure Drug Co., Ltd., Nottingham, announce that, immediately following the Government's appeal for retail price "ceilings," the directors held a meeting at which they decided to ignore rises in costs and to hold prices at their present level or lower in all their 1,230 branches until further notice. In addition, they have instructed branches to allow a discount of a penny in the shilling to purchasers of a wide range of products

of their own manufacture when three or nore of the same articles are bought.

Again Available. — Leda Chemicals, Ltd., Wharf Road, Ponders End, Middle-ex, state that their DDT powder, liquid pray, horticultural spray, Peter Panda cards, and household spraying outfits, are again available this season. Inquiries addressed to the company from retailers in Great Britain will be referred to wholesalers. In Northern Ireland the company's sole agents are Whyte, Reid & Mitchell, Ltd., 61 Donegall Pass, Belfast; the sole agents for Scotland are Southern Manufacuring Co., Ltd., 214 West Regent Street, Glasgow, C.2.

Improved Electric Blanket. — Isopad, Ltd., 14 Poland Street, London, W.1, have ntroduced an electric blanket in the design of which safety has been the prime consideration. The heating element, of sbestos-covered wire, is woven by a patented process into a base of non-inflammable fibreglass material. The element unit is embedded between two layers of blanket labric measuring 50 in. x 30 in. Temperature is controlled by three thermostats, and an attachment enables the user to select any desired heat up to 140° F. by setting a marked dial. For use in institutions, the regulator can be placed out of reach of the patient. Distribution is through specially appointed wholesalers and retailers. ticulars may be obtained from the makers.

Southern Counties Medical Exhibition. Manufacturers who have booked space at a Southern Counties Medical Exhibition to be held at the Polygon Hotel, Southampton, on April 20, 21 and 22, include Abbott Laboratories (England), Ltd.; Armour Laboratories, Ltd.; Boots Pure Drug Co., Ltd.; British Oxygen Co., Ltd.; British Schering, Ltd.; Burroughs Wellcome & Co.; Ciba Laboratories, Ltd.; Evans Medical Supplies, Ltd.; Genatosan, Ltd.; Glaxo Laboratories, Ltd.; C. J. Hewlett & Son, Ltd.; Imperial Chemical (Pharmaceuti-cals), Ltd.; Eli Lilly & Co., Ltd.; H. R. Napp, Ltd.; Oppenheimer, Sons & Co., Ltd.; Oxo, Ltd.; Rybar Laboratories, Ltd.; Sharp & Dohme, Ltd.; T. H. Spicer & Son; Vitamins, Ltd.; William R. Warner & Co., Ltd.; John Wyeth & Brother, Ltd. Medical films are to be shown daily at the exhibition.

Kodak Items.—Kodak, Ltd., Kingsway, London, W.C.2, are introducing a portable camera stand of new design, the Kodak metal compact stand, which is now in pro-

duction. The stand is designed for halfplate and whole-plate view-type cameras, and has a body of aluminium alloy casting with stays of duralumin, legs of steel and centre-column of brass. A standard 3 in. Whitworth camera screw, set in a slot to facilitate centring of the camera, together with a covering of non-slip rubber, holds the camera rigidly in position. The platform is mounted on a ball-and-socket head and clamped by a locking lever at any angle between horizontal and 45° in any direction. A slot in the side of the socket allows the platform to tilt as far as the vertical. index line, scribed round the surface of the ball, facilitates quick levelling of the camera when working on level ground. A restricted number of Kodascope Eight-45 projectors (see C. & D., 1947.II.466) is becoming available on the home market. Supplies are being allocated entirely through retailers.

Toiletries for Men. — A new Snowfire series of brilliantine, solid brilliantine and



brilliantine cream has been introduced by F. W. Hampshire & Co., Ltd., Sunnydale, Derby. The series has labels in distinctive colours (chocolate on sandalwood) and is later to include Snowfire shaving stick.

# Proprietary Articles Trade Association

Additions to Protected List (Part 1).—Glain Industries, Glain tablets, 50's, 13s. 4d. doz., tax 33\frac{1}{3} per cent., inclusive retail price 2s.; L'vog'ain liver pills, 40's, 6s. 8d. doz., tax 33\frac{1}{3} per cent., i.r.p. 1s.; Glainabol, 14s. 3d. doz., tax 33\frac{1}{3} per cent., i.r.p. 2s. 2d. Less 2\frac{1}{2} per cent. cn orders over \(\frac{1}{3}\text{c.}\).

28. 2d. Less 2½ per cent. on orders over £2.

Additions to List (Part 2).—Culmak, Ltd., Culmak badger shaving-brush, No. 40, 240s. doz., tax

50 per cent., i.r.p. 40s.

### P.A.T.A. VIEWS ON PURCHASE TAX

SIR,-It is hoped that the complete review, before the April Budget, of the incidence of purchase tax which has been promised by the Chancellor of the Exchequer will result in the removal of some of the anomalies and hardships at present affecting the purchasing public and the trading community. Just over a year ago the Council of the P.A.T.A. put on record their views relating to the purchase tax position then existing. The worsened economic position of the nation has, it is appreciated, made impracticable the realisation of some of the changes then suggested as desirable. At the same time, the case for the modifications referred to below is, in the opinion of the P.A.T.A., insistent and unchallengeable.

### Complete Agreement

In presenting its viewpoint this Association, necessarily, endeavours to harmonise the interests of the members of its three constituent sections-manufacturers, wholesalers and retail chemists. On the question of purchase tax on medicines the three sections are in complete agreement. As has been stated before, it is the unanimous view of the P.A.T.A. Council that the tax on medicines of all kinds should be abolished completely. The Council have always held that there was not and is not any justification for the levying of a tax on medicinal preparations and they consider that the doubling of the rate on this class of goods was arbitrary and quite uncalled-for. In this connection, the Chancellor's economic slogan "too much money chasing too few goods" has no shadow of application, and the increased cost to so large a section of the public of standard household remedies which they regard as essential purchases and also of prescribed ethical proprietary medicines, is a hardship that should be removed. Turning to another class of goods of importance to a considerable section of the Association's manufacturers and to all its retail members-toilet, cosmetic and perfumery articles—the harsh and punitive tax of 125 per cent, is having effects which, if the rate is not substantially reduced, are likely to prejudice progressively the export drive to which the manufacturers concerned are being urged to devote increasing efforts. The Chancellor's de-sire to reduce retail sales in goods of this kind is certainly being realised, but if a point is reached when home sales decline

below a certain level then the basis on which the export trade is built up will be undermined and exports will diminish rather than expand. It is hoped, therefore, that the rate of tax on toilet and perfumery goods will be so adjusted as to permit retail sales to move more freely and. at the same time, the manufacturers' export drive to be maintained. On the wholesalers falls the main burden of collecting the tax, whether or not retail customers have paid their accounts within the relevant period. The amount of tax due from them on goods supplied by the wholesaler has to be remitted by the latter to the Customs and Excise officers quarterly. It is inequitable (and contrary to the assurance given at the time purchase tax was introduced) that the wholesaler should be obliged to remit, not the amount of tax he has collected, but the amount due on the taxable goods he has sold. For many wholesalers, collection of purchase tax entails heavy expenditure-in one instance quoted it amounted to approximately £10,000 a year-and this expenditure is not recoverable. Consideration should be given to some form of recompense commensurate with the cost of collection or at least to an extension of the period of time in which the collected tax has to be paid over to the Customs and Excise.

### A Requirement that Operates Harshly

It is also hoped that, in the course of his review, the Chancellor will find time to amend the statutory requirement that, in determining the price on which purchase tax is paid, the price shall include the cost of delivery to the buyer at his place of business and the cost of insurance and other incidental expenses. This requirement operates harshly on the retailer who receives consignments of goods small in quantity and low in value or goods sent to him in special or urgent circumstances -on which both a delivery charge and purchase tax on that charge have to be paid. Yours faithfully,

H. E. CHAPMAN,
Secretary, Proprietary Articles Trade
London, W.C.1.
Association.

[Subscribers are reminded that reprints are available of "The Case Against the Imposition of Purchase Tax on Drugs and Medicines," as propounded in the C. & D., February 21, pp. 242-43.—Editor.]

### PRICE STANDSTILL ORDERS

The President of the Board of Trade (Mr. Harold Wilson) signed on February 23 a number of Orders, operative from March 15, giving effect to the changes in price control policy announced by the Chancellor of the Exchequer on February 12. The general effect of the Orders is to provide, within the field of price control, the maximum assurance that for a wide range of goods there will be no increase in prices or profits calculated to strengthen the demand for increased wages, and to help keep the cost of living from increasing further.

The Orders, which affect only those goods within the Board of Trade's sphere of price control, are of two main classes:
(1) "Standstill" Orders intended to bring under closer and more up-to-date control goods (mainly the less essential goods) formerly only loosely controlled under the Prices of Goods Act or under earlier "standstill" Orders; and (2) Orders covering goods under the "cost-plus" form of control (whereby manufacturers can include in their price the whole cost of making the goods plus a prescribed profit margin) with the object of providing that increased wages agreed after February 4 may not be added to the price, except in agreement with the Board of Trade (this form of control applies mainly to footwear. clothing, etc.).

The first Order is the Miscellaneous Goods (Maximum Prices) Order, 1948, covering, broadly, classes of goods formerly controlled under the Prices of Goods Act, 1939, and not affected by various arrangements made between manufacturers and the Central Price Regulation Committee.

For manufacturers, the maximum price chargeable is fixed for each individual manufacturer at the lowest price charged by him for similar goods during the two months ended January 31, 1948 (the "basic period"). A manufacturer selling goods which are not similar to any that he sold in the basic period may charge only the cost of materials plus the percentage shown against the item in column 2 in the table below.

Wholesalers' and retailers' maximum prices are fixed at the price they pay for the goods plus the percentage margins they added in December 1947 or the appropriate percentage shown in column 4 or column 5 of the table, whichever is the lower. A wholesaler or retailer who now sells goods he did not sell in December 1947 may add a margin not exceeding the appropriate percentage shown in column 4 or column 5 of the table. Column 3 lists the margins for importers.

The Miscellaneous Goods (Maximum Prices) Order, 1948, includes the following items of interest to the drug trade:—

Column 1	Colu	mn 2	1	Colum	n 3		Colu	mn 4	Colu	ımn 5
Description of goods	Manufacturer's per- centage of the cost of materials		Importer's and wholesaler's percentage of the landed cost  (a) on a sale (b) otherwise on a sale than to a retail tail customer			Wholesaler's % of purchase price paid or agreed to be paid to manufacturer.		Retailer's percentage of the purchase price paid or agreed to be paid to the manufacturer, importer or wholesaler		
Photographic cameras, photographic enlargers, projectors for sub-standard film or for slides, lenses and other component parts of and accessories to such cameras, enlargers or projectors	(a)	20	(a) (b)	10	(a) (b)	55 47.86	(a) (b)	5	(a) (b)	50
Toilet requisites and accessories of all kinds (excluding hot water bottles and articles of pottery) Perfumery and toilet preparations (whether	-	33 <sup>1</sup> / <sub>3</sub>		22.65		55		17.65		50
medicated or not) other than soap	1	50		22.65		55		17.65		50

### SUBSTANCES RECOMMENDED AS MEDICINES

Statement by the Pharmaceutical Society of Great Britain

FOLLOWING discussions between the Pharmaceutical Society and representatives of manufacturers' associations at a meeting on November 21, 1947, on the interpretation of the judgment in the Potter & Clarke case (see C. & D. Diary & Year Book, 1948, pp. 339-41), the Society has now issued a report expressing opinions on whether a number of words and phrases listed in the statement constitute recommendations as a medicine. The secretary points out that "The report is no more than an expression of an opinion on certain words and phrases which were put up to the Society." Many other terms were considered at the meeting upon which the Society expresses no opinion, "since it would only cause confusion to take such words in isolation." The examples quoted are terms and phrases that "can reasonably be considered to constitute recommendation in themselves, quite apart from the context in which they are used." The document is authority only to the extent that it represents the advice the Society will give to inquirers, and a guide which it will use in administering the law.

At the meeting there were representatives of the Society, of the Wholesale Drug Trade Association, Toilet Preparations and Perfumery Manufacturers' Federation of Great Britain, Ltd., Association of Wholesale Druggists, and the Co-operative Congress Parliamentary Committee, with observers from the Ministry of Health.

The discussion centred upon the position of certain names, words and medicinal terms in relation to the definition of "substance recommended as a medicine" in Section 17 of the Pharmacy and Medicines Act, 1941, in the light of the judgment in the test action (Potter & Clarke, Ltd., v. the Pharmaceutical Society).

"The judgment in the test action," states the report, "has decided that the definition of 'substance recommended as a medicine' as set out in Section 17 of the Pharmacy and Medicines Act, 1941, is to be interpreted as follows:—

(a) recommendation cannot be implied from circumstances outside the actual terms in which it is made;

(b) the recommendation must be found in

the words used;

(c) the terms which constitute recommendation must be reasonably calculated to lead to the use of the substance for the prevention or

treatment of a human ailment, infirmity or

injury: and

(d) the ailment or group of ailments for which the substance is recommended must either be specified in terms or be indicated by necessary implication from the terms used as exemplified in the decision on the word "linctus."

### Terms

The opinions provisionally expressed at the meeting were further considered later, and a list formulated of words which, considered in isolation, constitute recommendation in the opinion of the Society. Words in the list are:—

Alterative -Cardiac Lenitive Analgesic Carminative Linctus Anodyne Cathartic Pectoral Diaphoretic Pulmonary Antacid Anthelmintic Diuretic Pulmonic. Antiphlogistic Drawing Purgative Emmenagogue Sedative Antipyretic Antiscorbutic Expectorant Stomachic Sudorific Antispasmodic Hæmostatic Hepatic Vermicide Aperient Aphrodisiac Hypnotic Vermifuge Bronchial Laxative

### Phrases

The following phrases are held by the Society to constitute a recommendation:—

Corrects acidity.
Reduces inflammation.
Produces perspiration.
Eliminates uric acid.

Antiseptic for application to wounds. Lines the stomach with a protective

Absorbs stomach poisons.

Absorbs toxins from the alimentary

canal. Relieves pain.

Reduces swellings. For bruises.

Cleanses the blood of impurities.

Protects the chest

Protects the chest. Eve ointment.

Ear drops.

Possesses blood forming properties.

For the removal of hard skin.

For softening hard skin.

For the removal of warts (or destruction of warts).

Urinary antiseptic.
Intestinal disinfectant.

For disinfecting the bowel.

Prevents infection.

For irritation of the skin.

The Society considers that the use of ody names in association with the name of a medicinal substance, as a general rule, constitutes recommendation, e.g.:—

Chest and lung mixture. Head powders. Stomach powder.

### Ailments

Liver pills.

The following descriptions of bodily conlitions are considered to be within the expression "ailment, infirmity or injury affecting the human body" as referred to in the Pharmacy and Medicines Act,

Abrasions .

Bites of insects
Blotches and pimples
Bruises
Chafes
Chapped hands
Chapped lips
Clergyman's sore
throat

Chilblains
Constitutional
weakness
Dandruff
Decayed teeth
Relaxed throat
Scurf
Sore lips
Sunburn

# PHYSICO-CHEMICAL METHODS OF PHARMACEUTICAL ANALYSIS

2.—Principles of Colorimetric Analysis By W. F. Elvidge, Ph.D., B.Sc., F.R.I.C.

THE past decade has seen many advances in colorimetric analysis, due to improvements in apparatus and, perhaps more especially, to the preparation of new organic compounds for the determination of traces of metals. Two techniques are used to determine the concentration of coloured substances in solution. simpler involves matching colours in equal lengths of column, a process usually termed colorimetry—a misnomer, since, in fact, no measure of colour is carried out. The other, based on the same principles as ultra-violet spectroscopical analysis (see C. & D., February 14, p. 219), involves the absorption of a narrow wave-length band. Both methods can be either subjective (i.e., the matching the colours is dependent on the observer's judgment), or objective, in which photoelectric cells or other means replace the human element. Some instruments employ a single photocell, light being made to pass through a cell containing the reagent. The resulting photo current, which is measured by a low-resistance microammeter, gives a measure of Io. The cell is then replaced by one containing the coloured solution, when the ammeter gives a measure of I. Providing the response of the photocells is linear, the respective currents give the transmittancy I/Io. The essential feature for accuracy, using a single photocell, is the constancy of the light source between the two readings, but this is not essential in instruments employing two photocells and a null point method of operation. The correct term for such an instrument is an absorptiometer, since it gives a measure of the light absorbed by the coloured solutions. To obtain greater sen-

sitivity and characterisation filters are usually used. These must be selected to transmit light of the same wave-length as that absorbed by the coloured solution, thus enabling a narrow wave-length band, as near as possible to monochromatic light, to be selected. In use a calibration curve is first made, plotting the concentrations against the optical densities observed. The curve should be linear over the concentrations required, but will not in general be inclined at 45° to the axes, since the light is not strictly monochromatic. When investigating a new colorimetric method, it is essential to ensure this linear response, and the concentration or length of column through which the light passes must be adjusted so that the optical densities lie between 0.3 and 1.5. Stability of the colour is important and must be determined for each reaction.

It is possible to use a spectro-photometric apparatus for colorimetric analysis, as for ultra-violet absorptiometry, by substituting glass for the quartz optical train, and a metal filament light for the tungsten steel electrodes, and by using panchromatic plates. In some instruments, each wavelength in turn is brought into the optical path, and the intensity of the colour is compared visually at each wave-length. process is tedious, but has the advantage of giving a complete absorption curve in the visual range. This is particularly important since the exact shape of the curve often possesses valuable diagnostic features as, for example, in the colour reaction between antimony trichloride and vitamin A. The introduction of electronics into this type of apparatus lessens the tedium of the work.

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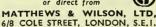
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VOL. CXLIX FEBRUARY 28, 1948 No. 3549

### Organised Research in Pharmacy

WE are disposed to press upon members of the Pharmaceutical Society, as well as on the Council, that they should give the fullest consideration to the suggestion put forward by Mr. A. G. Fishburn, Ph.C., recently, to establish a Pharmaceutical Research Council. The chairman of the Education Committee (Mr. C. W. Maplethorpe) gave an undertaking on the occasion of Mr. Fishburn's address that he would bring the matter before his Council colleagues. Presumably he has done so in the meantime but, of course, it is too soon to expect any practical outcome to the Council's deliberations.

A step of value in weighing up the merits and possible demerits of the proposal is to study the constitution and working of the Medical Research Council, both in order to decide whether that body may render superfluous any similar pharmaceutical organisation, and also to suggest a working basis if it is concluded that a real need exists. With this in mind, we present in this issue descriptive articles on the M.R.C. itself and upon its subsidiary organisation, the Department of Biological Standards.

It will be seen that the principal func-

tions of the M.R.C. are:-

1. To study the nature and causes of disease.

2. To devise methods of prevention.

3. To maintain standards of purity and activity in "certain drugs, hormones, vitamin preparations and antitoxins."

The purposes for which it has been suggested that a pharmaceutical research body is needed are the following: -

1. Formulation of medicaments to ensure that active ingredients are presented in their most effective form.

2. Analysis, as a means of controlling quality, stability, potency, etc., both in the original drug and in the formulated article.

3. Co-ordination of the work of research bodies and workers in pharmacy so that

there is no overlapping of effort.

The second of these functions appears to impinge upon the third of those ascribed to the M.R.C., and it is true that the "maintenance of standards of purity" is an essentially pharmaceutical function, demanding knowledge of the chemical and physical characters of the materials themselves, and of any vehicles in which they may be presented for use as standards. The M.R.C., however, appears principally to be concerned with the maintenance of the activity of drugs for purposes of reference or comparison. The Council has not concerned itself with the presentation of drugs so as to ensure maximum potency at the point of administration. That is where a P.R.C. would come into the picture.

Consideration would have to be given to the question whether official status would be required for this at present hypothetical body or whether it could be organised on a voluntary and co-operative basis by the various interests concerned (e.g., pharmacists, manufacturers, prescribers and the public), possibly on the initiative of the Pharmaceutical Society. Wrapped up in this question is that other very important matter: Who is to put up the necessary funds? There might be various sources of income, including contributions from manufacturers (who would benefit, it may be claimed, from being saved many expensive and unnecessary separate investigations) and from the State, because the Minister of Health will become, under the National Health Service Act, a party vitally interested in securing maximum value, in a therapeutic as well as a financial sense, from all medicaments provided under the State scheme. Like the M.R.C., the Pharmaceutical Research Council could depute specific tasks to expert subcommittees, and its composition could include pharmacists expert in pharmaceutics, pharmacognosy, formulation, analysis and manufacture. It could, in itself, be consulted by the M.R.C. on researches of a purely pharmaceutical character for that body, or could give information from its own knowledge of newly-elaborated drugs and medicaments likely to result in profitable medical investigations.

The time has not yet come to adumbrate a detailed constitution for the organisation. The first step is to decide the extent of the need, and whether the necessary resources and backing will be forthcoming.

### Technicians and Non-technicians

Many members of the Pharmaceutical Society have been quick to scent danger in a suggestion thrown out both by their secretary (Mr. Hugh N. Linstead), and by certain members of the Council, that there might be called into existence a new class of pharmaceutical technicians in order (a) to overcome an expected shortage of pharmaceutical man-power, and (b) to leave pharmacists free from routine duties and thus better able to devote themselves to the higher problems of providing a national pharmaceutical service.

An almost casual reference to "more non-technical help," given in a reply to a questioner at Birmingham in January by the secretary of the National Pharmaceutical Union (Mr. G. A. Mallinson), seems, curiously enough, to have passed unnoticed. Both ideas merit investigation.

Indeed, the two conceptions have much in common, and some may have thought that Mr. Mallinson made a slip of the tongue or was misreported when he used the word "non-technical." We believe, however, that his choice of word was deliberate and that he intended something different from the technicians of Mr. Linstead and others.

Members of the Society may thus be faced with questions to which it is important that answers should be found:—

(1) Should dispensing by non-pharmacists under the National Health Service be regarded as legitimate, provided that it is carried out under the supervision of a pharmacist? [There are many who argue that all dispensing should be carried out in person by qualified pharmacists].

(2) If dispensing by unqualified persons is recognised, should the recognition be on the basis of a tacit understanding, such as now, in fact, permits unqualified dispensers to function in the National Health Insurance scheme under the supervision of qualified pharmacists, or should there be a new qualification, based on examination, for technical assistants to pharmacists?

(3) What effect, if any, would such a new qualification, if brought into existence, have upon the present qualifications of the Phar-

maceutical Society?

In attempting to arrive at satisfactory answers to these questions, the inquiring pharmacist may draw upon, first, the history of the qualifications in this country since they were established, and secondly, the current practice in countries such as Eire and Holland, in which there exists a qualification for a pharmaceutical technician of lower status than the pharmacist.

It is common knowledge that the pioneers of pharmaceutical education in Britain intended that the Pharmaceutical Chemist qualification should be held by pharmacists operating businesses as proprietors, and that the Chemist and Druggist examination should be taken by their pharmaceutical employees. What, in fact, happened was that the lesser qualification proved in every way adequate for "keeping open shop," and the vast majority of those who qualified, whether they were content to remain as employees or hoped eventually to own their own business, saw no purpose in going beyond it. Many of those who took the Pharmaceutical Chemist qualification found more congenial careers in manufacture or on the wholesale side.

Quite recently, of course, the policy has been adopted by the Council of requiring all entrants to pharmacy, after a given date, to take an examination equivalent to the present higher qualification. If a new technician grade is introduced, will history repeat itself? In other words, will the technician qualification come to operate generally for N.H.S. purposes, and those who take the full pharmaceutical qualification either be trained to an unnecessarily high level or abandon practical pharmacy under the National Health Service Act for positions offering more scope for their pharma-

utical attainments? That outcome is not rhaps inevitable, but members of the sciety have a right to insist upon the layg down of adequate safeguards, with no eakening of the requirement that dispense shall be done under supervision.

Mr. Mallinson, as we interpret his reference, takes the realist view that a considerble amount of dispensing is today done, as verybody knows, by unqualified persons; at economic conditions make this inevitble; that the arrangement has worked perctly well; and that the system may be stended to meet the needs of N.H.S. withut any radical change being required.

These, then, are the issues, and there is b easy or quick answer to them, for the nswer is bound up, first, in the general conomic conditions which affect pharmacy much as every other calling; secondly, the remuneration still to be negotiated or pharmacists under the new Act; and hirdly, in the force which pharmacists put ehind their claim to a greater degree of ecognition. The subject is one of the most nportant that can be discussed at branch reetings at the present time, and the wider he discussion, and the more general the onsensus of opinion reached, the more kelihood there will be that action taken y those in pharmaceutical authority will e in line with what a majority of pharmaists regard as the welfare of their calling.

### Record Chemical Trade Figures

THE efforts of exporters to reduce the dverse balance of the United Kingdom rading account continue to be negatived y an almost continuous increase, month by month, in the value of imports. For the irst month of this year exports, including re-exports, of all classes of merchandise eached the record total of £124.92 milions, an increase of over £10 millions on the December 1947 total and £28.6 milions more than the value of shipments in January 1947. Imports for the first month of this year amounted to £161.75 millions compared with £153.40 millions in Decemper 1947, and £121.54 millions in January 1947. The adverse balance for January was £36.8 millions compared with £39.2 millions in December 1947, and £25.2 milions in January 1947.

There was an all round increase in trade in the products of the "Chemicals" group during January, with imports valued at £2,376,500—the highest monthly total of the post-war years—while exports reached the record figures of £6,760,700, giving a balance for the industry of £4,384,200 on the month. To the achievement of this gratifying further increase in exports must be added the substantially greater demands for chemical products by practically every industry producing manufactured goods for export, to whom the chemical industry gives priority over its sales to most overseas markets. The ability to meet the present-day ever-increasing demands for both home and export reflects the tremendous growth of the British industry in scope and capacity in all fields.

Shipments of proprietary medicines continue to be well maintained at recent levels, with the January total at £548,000, compared with £411,900 in the corresponding month of last year. The value of quinine and its salts shipped in January reached the satisfactory total of £31,790, against £14,550 in January 1947. The first month's shipments of penicillin were valued at £129,625 (214,000 mega units), compared with £70,900 (85,050 mega units) twelve months ago. The value of exports of insulin declined a little during January, with the total at £27,700, against £32,400 in January 1947. There was a big drop in the quantity and value of shipments of aspirin to overseas markets, with the January figure at £9,570 (41,480 lb.), against £69,400 (200,000 lb.) in January Shipments of ointments and liniments during the month under review went up to £50,083, compared with £33,550 a year ago. The value of perfumed spirits shipped in January was £52,100, against £36,500 in the first month of 1947. Overseas business in natural essential oils in January at £13,300 was disappointing compared with the January 1947 total of £23,800. There was a welcome improvement in the value of toilet soap shipped overseas in the first month of the year, the total being £64,100, compared with £27,600 a year ago. A revival in shipments of paraffin wax is noted, with consignments for the month valued at £26,100.

### THE MEDICAL RESEARCH COUNCIL

What it does and how it is organised

THE Medical Research Council is a body which devotes itself to the study of the "physical and mental needs of man in sickness and health." The Council's programme of work includes not only the study of the nature and causes of

disease, and improved methods of prevention, diagnosis and treatment. but also work on other and fundamental sciences such as physiology, biochemistry, genetics, nutrition and psychology. A special responsibility of the Council (undertaken at the National Institute Medical search, Hampstead, see p. 282) is the K.C.B., G.B.E., M.D., maintenance of F.R.S., secretary to the declaration of purity. standards of purity



and activity for certain drugs, hormones, vitamin preparations and antitoxins, for the United Kingdom, and often on an international basis through the World Health Organisation.

### Allocates Research Funds

Though not a Government department, the Council is a Government body, and controls and allocates Government funds set aside for research. Like its sister organisations the Department of Scientific and Industrial Research, and the Agricultural Research Council, the Council is under the formal authority of a special Privy Council Committee of Ministers of the Crown. The Committee's president is the Lord President of the Council, who is the Minister responsible to Parliament for the work of the three Government research organisations (an arrangement which is found to assist co-operation between the organisations where their work overlaps).

The Council originates from the Medical Research Committee which, in 1913, was established to administer funds for medical research under the National Health Insurance Act, 1911. Though the primary duty of that committee was to promote research into "any disease to which insured persons are subject," the outbreak of war in 1914 caused the Committee to redirect its work chiefly to problems of military significance and to study, in co-operation with the Army Medical Service, questions such as the spread of bilharzia infestation, the treatment of

amæhic dysentery and the development of antiseptics for treating wounds.



Mr. C. R. Harington, M.A., Ph.D., F.R.S., director of the National Institute for Medical Research, London.

### Constitution

In 1919, when the Ministry of Health was established, the Medical Research Committee survived as a semi - autonomous body of scientific experts and distinguished laymen; it was placed under the direction of a Privy Council Com-

mittee consisting of the ministers in charge of the principal State departments concerned with public health at home and in the Empire, with the Lord President as chairman. The following year the Council received its present title and constitution, and was granted a Royal Charter of Incorporation, funds being provided by the Treasury as a grant-in-aid approved yearly by Parliament, instead of out of N.H.I. funds. Under the constitution, the Minister of Health is vice-chairman of the Committee of Privy Council for Medical Research, while the secretary of the M.R.C. is exofficio secretary of this Committee also. This provision allows of direct access between the M.R.C. and the Lord President as its minister in Parliament. The Council consists of three lay and nine scientific members, with a secretary and other administrative officers. One of the lay members, at least, has to be a member of the House of Lords, a second a member of the House of Commons. The present chairman is Lord Balfour of Burleigh, the treasurer is Sir William Goodenough, and the secretary is Sir Edward Mellanby. Members retire in turn after serving four years. The scientific membership usually consists of persons (nearly all Fellows of the Royal Society) with first-hand experence of research in medicine and surgery, r the fundamental sciences, or of some of ne specialities of medicine. The scienfic members are appointed by the Privy louncil Committee after consultation not nly with the existing Council but also with the President of the Royal Society as representing independent scientific pinion). Normally the Council submits

o Parliament an annual report. The Council has the assistance of a number of technical committees, which it has tself appointed. These include, for eximple, the Accessory Food Factors Comnittee, the Chemotherapy Committee, the Vision Committee, the Committee on Medical and Surgical Problems of Deafness, and the Dental Diseases Committee. Recently appointed committees include those organising trials of streptomycin in tuberculous and non-tuberculous conditions, a committee studying medical and biological applications of nuclear physics, and (in co-operation with the Colonial Office) a Colonial Medical Research Committee. In addition, the Industrial Health Research Branch and other special committees of the Council study problems of occupational health and efficiency.

The Council meets about nine times a year to discuss policy, etc. To assist in the planning of investigations undertaken for the Ministry of Health or other Government bodies, the Council has usually appointed ad hoc committees. The Council is empowered to accept and administer private gifts for the support of medical research, and may collaborate with other organisations in Britain or abroad having similar functions. The Wellcome and the Nuffield Foundations are among bodies collaborating at the present time.

#### Research Establishments

The research laboratories of the Council include the National Institute for Medical Research, Hampstead, London, with an associated special building for nutritional research at Mill Hill, Middlesex. Hampstead building, formerly a tuberculosis hospital, was acquired by the Medical Research Committee in 1914. It is hoped within the next few years to transfer the work to a new and larger building now being equipped at Mill Hill. much of the work at the Institute is fundamental, certain sections have an immediate bearing on clinical problems, for example, an attack being launched at a special hospital at Salisbury on the ætio-The broad logy of the common cold.

subjects of research carried out at the Institute include physiology, pathology (including bacteriology, virus diseases and immunology), pharmacology, chemotherapy, biochemistry, endocrinology, and physics in relation to biological research (such as work with the electron microscope). Fundamental studies of steroids and sterois have also been undertaken, and diseases recently studied intensively include malaria and the typhus fevers. The present director of the Institute is Dr. C. R. Harington, who is perhaps best known for his work on the synthesis of thyroxine.

### Special Units Maintained

The Council maintains special units for clinical research at a number of teaching hospitals throughout the country. A team for research on the medical applications of nuclear physics, including the health hazards involved in working with radioactive isotopes, is being attached to the national atomic energy research establishment at Harwell. The Council also maintains a unit for work on biophysics at Kings College, London. Establishments of the Council at university and other centres deal with bacterial chemistry, cell metabolism, chemotherapy, blood transfusion (including problems of blood grouping and the preparation of blood derivatives), and industrial physiology and toxicology. Nearly all the medical staff working in the research establishments are whole time servants of the Council, but members of the research staff are encouraged to engage in a certain amount of university teaching. Temporary grants for approved researches by independent investigators throughout the world are made by the Council, an outstanding example of research assisted by such grants being that on penicillin by Sir Howard Florey and colleagues, at Oxford. In addition, in order to aid recruitment of research workers in medical science, the Council has instituted a number of studentships for training in research methods; travelling fellowships are also awarded. Since the beginning of the 1938-45 war the Council, on behalf of the Ministry of Health, has organised and directed a special Public Health Laboratory Service to combat outbreaks of infectious disease and to undertake epidemiological research.

Publications by the Council include a series of more than 260 special reports and a separate series of memoranda.

### BIOLOGICAL STANDARDS FOR DRUGS

How the standardised materials are prepared, stored and issued by the Medical Research Council

THE Department of Biological Standards at the National Institute for Medical Research, Hampstead, London, has played an important part in establishing many of the thirty-five inter-national standards for biological products, and among numerous other duties now forms one of the two international distributing centres. It deals with twenty-six standards, including insulin, pituitary extract, the arsphenamines, the vitamins, digitalis, ouabain, heparin and penicillin, Besides its international work on behalf of the World Health Organisation (formerly the Health Organisation of the League of Nations), the department has made a number of national standards for the purposes of the Therapeutic Substances Act, and of the British Pharmacopæia. The work of the department is also notable for the close connection which is maintained with many manufacturing pharmaceutical firms. The present director of the department is Mr. A. A. Miles, M.A., F.R.C.P.

The materials which the department handles are drugs that cannot be assayed physically or chemically. Biological standardisation of them generally involves two stages: (a) a unit of activity has to be defined, and (b) the amount containing one unit of activity has to be determined. As biological standards must be stable, the preparations are stored dry at a temperature between -5° and -10° C., in darkness, and sealed in ampoules in an atmosphere of dried nitrogen. Old tuberculin standard is an exception, being stored in a liquid form. Serum standards are now freeze-dried for storage, but are dispensed for use in a form, often a solution, in which they can be handled with minimum trouble and delay. Stocks of international standards in the department are large enough to meet world needs over a long period.

### Ehrlich's Unit Adopted

Biological standardisation possibly originated with Ehrlich, for he found that the only solution to the difficulties arising from the use of diphtheria antitoxin (discovered by Behring) was to adopt a sample of diphtheria antitoxin as a "standard" for comparison. He emphasised that the unit must be fixed in an unvarying quantity, and that the standard must be stable, He

preserved the sample dry, at a low temperature, and in vacuo. In 1921, when an international conference was called in London by the Health Organisation of the League of Nations to discuss for the first time the establishment of an international biological standard (for diphtheria antitoxin), it was found that Ehrlich's original standard had not altered in potency, and the conference recommended the adoption of his unit as the international unit. By 1925, following conferences at Paris, Edinburgh and Geneva, to which Sir Henry Dale (of the National Institute for Medical Research), and Dr. Thorwald Madsen (director of the State Serum Institute Copenhagen, Denmark) contributed notably, international standards for digitalis, pituitary (posterior lobe) extract, insulin and the arsphenamines were adopted. The State Serum Institute of Copenhagen now acts as the international distributing centre for standard serological preparations.

### Fixing the Size of Units

The sizes of the international units have been arrived at by four different methods: It may be (a) the size which has become established through common usage (e.g. diphtheria antitoxin and penicillin); (b) an arbitrarily chosen weight (e.g. anti-dysentery serum and staphylococcus antitoxin); (c) the result of a compromise between conflicting claims; and (d) a quantity that bears an approximate relationship to the biological effect it produces (e.g. insulin).

The international nature of the work is illustrated by the number of different countries giving supplies of the various standards, for example, serological standards have been supplied from laboratories in Denmark, England, France and the United States; a laboratory in Switzerland gave 30 gm. of androsterone, one in England 20 gm. of pure  $\beta$  carotene, and another 30 gm. of the pure sodium salt of penicillin II, for use either as international or British biological standards. All standards are distributed from the department free, whether the consignee is a nation or an individual worker.

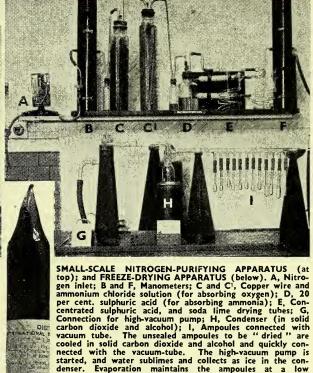
The mechanism for establishing biological standards is typified by that for establishing a provisional penicillin international standard during the 1939-45 war.

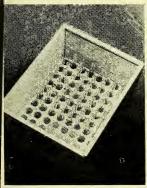
### T THE DEPARTMENT OF OLOGICAL STANDARDS

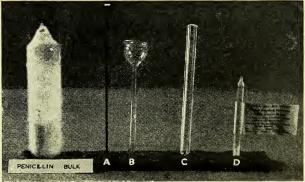


JNIT FOR DISPENSING TANDARD GAS-GANGRENE ANTITOXIN (Vibrion sepique). A, Ampoule containing fry serum; B, Sterile borate buffer; C, Sterile glycerin. A mown solution of the dry erum made with the sterile borate buffer and glycerin is lispensed for use in a capped tass-stoppered phial D.

At right: An ampoule (of mber glass) containing International Standard of Digitalis.







denser. Evaporation maintains the ampoules at a low temperature. Purified nitrogen is led into the dried evacuated ampoules, which are then sealed.

A typical container for storing dry serum standards in the cold room. The ampoules shown in the picture above contain the second international standard gas-gangrene antitoxin, 1941.

UNIT FOR DISPENSING BRITISH PENICILLIN STANDARD. Approximately 20 mgm, of the bulk standard penicillin is transferred from the ampoule A with the spoon B (which holds approximately that quantity) to the bottom of the final tube D, via the small glass funnel C, By this method penicillin is prevented from adhering to the sides of the tube and so is destroyed when the tube is sealed.

By 1943 preliminary work on the problem done in Britain and in the U.S.A. had already cleared the ground. Six samples of penicillin, some of which had served as reference samples for pharmaceutical manufacturers in Britain and America. were sent by Sir Percival Hartley (then director of the Department of Biological Standards, Medical Research Council) to investigators in the U.S., Great Britain and Canada, to be assayed in terms of the Oxford unit. The cylinder-plate, broth dilution, plate-droplet and turbidimetric methods were to be used with three specified types of organism. The results were sufficiently concordant for an attempt at standardisation to be made, and accordingly a conference was called in London in October 1944, with one Australian, three British, one Canadian and one French delegate, and a number of specialist observers including Sir A. Fleming, Dr. N. G. Heatley, Dr. C. H. Hampshire, Mr. A. A. Mortimer, and representatives from the National Institute for Medical Research, Hampstead, and the Wellcome Physiological Research Laboratories. Provisionally, a pure preparation of the sodium salt of penicillin was chosen as the international standard, and the international unit was defined as the specific activity contained in 0.6 microgram of the standard. representatives offered to prepare the standard material from concentrates supplied by British and American manufacturers. This provisional standard, together with those for vitamin E (1941) and heparin (1942), also set up by the Department of Biological Standards, Hampstead, were adopted recently by the Expert Committee on Biological Standardisation of the World Health Organisation as definitive international standards.

### Replacement of Standards

Among the many other duties of the department is the replacement of standards, which becomes necessary sometimes because the world demand is unexpectedly large, or world stocks at the time of adoption inadequate (for example, androsterone and progesterone), or sometimes because the existing standard no longer conforms to manufacturers' products of higher purity. Twenty of the thirty-five standards have had to be replaced. The task of replacement has been among the most onerous and exacting undertaken by the department for the former League of Nations Permanent Commission on Biological Standardisation. One of the guid-

ing principles of the department is not specify the details of the method by whi standardisation shall be done, for any d crepancies that arise from the use of different methods by different workers har often been found to lead to discoveri and, ultimately, to more accurate techniques. The departmental staff also ac as scientific adviser to the Ministry Health in the administration of the Therepeutic Substances Act, particularly in problems of assay of biological therapeuti substances.

Of particular interest to practisin pharmacists is a small sterile room wher ampoules of standards are filled aseptically. Air filtered free from organisms is fed into the room under pressure, the delivery vent being placed immediately above the working bench to give a "piston" effect on the atmosphere. Before work is started, the walls of the room are carefully wiped with oil, and the worker puts on a mask and clean gown. Bacteriological tests on the atmosphere, using Bourdillon slit samplers, have shown that aerial contamination can be reduced to about one organism per 10 cu, ft. over the site of work.

### Future Work

International biological standards may, in general, find an increasing scope of application in the field of the antibiotics and immunising antigens; one of the problems to be faced shortly may include the establishment of a biological standardisation of diphtheria prophylactic-on which work has already been done at Hampstead. A recommendation made recently by the Expert Committee on Biological Standardisation of the World Health Organisation for the provision of international standards for anti-A and anti-B serum in the ABO system of blood antigens, and of an international nomenclature for Rh antigens, with corresponding antisera, suggests, also, further lines for future work.

Present members of the Medical Research Council, in addition to the officers mentioned on p. 280, are:—

Professor P. A. Buxton, M.R.C.S.; Mr. A. N. Drury, M.D., F.R.S.; Sir Alexander Fleming, F.R.S.; Professor J. H. Gaddum, M.R.C.S., F.R.S.; Professor H. P. Himsworth, F.R.C.P.; Professor J. R. Learmonth, F.R.C.S.E.; Professor C A. Lovatt Evans, F.R.C.P., F.R.S.; Professor R. A. Peters, M.D., F.R.S.; Professor J. C. Spence, M.D., F.R.C.P.; Group Captain C. A. B. Wilcock, O.B.E., M.P.

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Works, 7.

Reynolds & Branson, Ltd., 13 Briggate, 1.

Timothy Whites & Taylors, Ltd., Burley Hill, 4.

LEICESTER: Youngs (Chemists), Ltd., 42 Belvoir

LIVERPOOL: Clay & Abraham, Ltd., 87 Bold Street. J. A. Jones, 122 South Road, Waterloo, 22.

S. Oldham, Grassendale Pharmacy, Aigburth Boulevard, 19. LLANDUDNO: H. Neville, 43 Queen's Road, Craig-

y-Don. LONDON: Allen & Hanburys, Ltd., 7 Vere Street,

W.1. K. Lister Green, 45 Cadogan Street, S.W.3.
W. Martindale (Savory & Moore, Ltd.), 61 Welbeck Street, W.1.

R. C. Parnaby, Queen Elizabeth Hospital for

Children, Hackney Road, E.2. S. A. Taylor, Westminster.

LUTON: Duberly & White, 215 Dunstable Road. MANCHESTER: S. D. Andrew, 244 Stockport Road, Levenshulme, 19.

F. C. Baines, 420 Wilbraham Road, Chorltoncum-Hardy.

J. Bury, Ltd., 5 Police Street, 2.

Hough, Hoseason & Co., Ltd., Atlas Mill, Levenshulme, 19.

Mottershead & Co. (Established 1790), Ltd., 7 Exchange Street, 2.

W. G. Phillipson, Crumpsall Hospital, Crumpsall,

H. Steinman, 77 Cheetham Hill Road, 4.

Westmacotts Pharmacy, Ltd., 17 Market Street, 1. Woolley, James, Sons & Co., Ltd., Knowsley Street, Cheetham Hill.

MIDDLESBROUGH: Middleton & Co., Ltd., 90 Boundary Road. NEWCASTLE-ON-TYNE: W. Owen & Son, Ltd.,

151 Barras Bridge, 2. NORTHAMPTON: Philadelphus Jeyes & Co., Ltd., 6

The Drapery. NORTHWOOD, MIDDLESEX: Anett & Co. (Che-

mists), Ltd., 31 Green Lanes. Norwich: J. F. Collin, Ltd., 25 The Walk.

NOTTINGHAM: Boots Pure Drug Co., Ltd., Special Laboratory, Wets Factory, Beeston.

Waterall & Eberlin, Ltd., 2 Chapel Bar. OLDHAM: T. B. Patch, Ltd., 8 Butler Green, Chadderton.

PENZANCE: Boots, Ltd., 9 Market Place.
PETERBOROUGH: Boots, Ltd., 8 Market Place.
Sturton & Sons, Ltd., 78 Bridge Street.
PORTSMOUTH: A. Graham Tatford, Miford Road.
PRESTWICH, LANGS: J. P. Oversby, 428 Bury Old Road, Heaton Park.

READING: J. P. Bate, Ltd., 46 Market Place.

J. R. Butler, 195 London Road, REDHILL, SURREY: W. H. Fowler & Co., 40 Sta-

tion Road.

RIPLEY, SURREY: K. E. White, High Street.

ROCHDALE: J. J. Thomas & Son, 24 Yorkshire Street.

RUGBY: A. G. Chamberlain (Chemists), Ltd., 3 Market Place.

ST. AUSTELL, CORNWALL: G. D. Jackson, 3 Victoria Place.

St. Helens: Jackson (St. Helens), Ltd., 32 Westfield Street.

SEDBERGH: J. P. Lowis, 41 Main Street. E. Powell, 49 Main Street.

SHANKLIN, ISLE OF WIGHT: Thatcher, Pike & Co., Ltd., 47 High Street.

SHREWSBURY: B. Salter & Son, 34 Castle Street. SIDCUP: Boots, Ltd., 56 High Street.

SLOUGH: A. J. Campbell, 13 Glentworth Parade, Salt Hill.

SOUTHPORT: T. H. Banks, Ltd., 80 Bispham Road. SUNDERLAND: Boots, Ltd., 61 Fawcett Street. SWANSEA: J. T. Davies (Chemists), Ltd., 13 Walter

Street.

TANKERTON, KENT: F. G. Hobart, 99 Tankerto Road.

TAVISTOCK: Boots, Ltd., 5 Duke Street.

TORQUAY: G. A. Clarke, 282 Union Street.
H. Holmes, 1 Victoria Parade.
TORRINGTON, DEVON: H. A. Pringle, 1 High Stree
TRURG: A. C. Cannon, 31 Boscawen Street.
TUNBRIDGE WELLS: A. E. Hobbs, Ltd., 72 Mour

Pleasant. TWICKENHAM: Bernard Phillips, Ltd., 30 Yor Street.

WARRINGTON: Thomas Brown (Chemists), Ltd., 5 London Road, Stockton Heath,

WEST HARTLEPOOL: Thomas Clarkson (J. H. P. Pitts, M.P.S.), 14 Tower Street.

Gamlen & Son, York Road.

WITHAM, ESSEX: C. R. Stoffer. Newland Street. WORTHING: Aston & Co., Ltd., 25 Montague Street.

A. G. Martin, 8 Goring Road. H. Reynolds, 237 Tarring Road, West Worthing. YORK: Bleasdale, Ltd., 23 Colliergate.

#### SOCIETY'S PRESIDENT AT BIRMINGHAM

AT a meeting of the Birmingham Pharmaceutical Association on February 11, Mr. G. Goulding (president) in the chair, Mrs. J. K. IRVINE (president of the Pharmaceutical Society) gave a review of current affairs. Discussing the National Health Service, she said pharmacists would welcome it if the terms of contract were satisfactory. Mrs. Irvine then went on to deal with plans for extending pharmaceutical education and for revising the Society's constitution. A Branch Representatives' meeting was to be held on May 20.

In the discussion which followed, Mr. H. Walsh criticised the imposition of purchase tax on drugs; when applied to National Health Insurance prescriptions, one Government department was paying out money to be collected by another Government department.

MRS. O. C. HEADING asked what the Society's Council was doing to secure commissioned rank for men and women pharmacists in the Services.—Mr. T. Reid (a member of Council) said everything possible was being done.

MR. P. CREES suggested that Branch Representatives might represent branches at

the annual meeting.

MRS. IRVINE, replying to the points raised, said the Council had taken up with the Government the question of revising the publication "Pharmacy as a Career." She regretted it was not possible for the Society to lease from London University sufficient accommodation in the Brunswick Square building for its activities.

A vote of thanks to Mrs. Irvine was proposed by Mr. G. Goulding and seconded

by Miss G. Byron (president, Birmingham Branch, National Association of Women Pharmacists).

Miss G. Byron and Messrs, D. J. Rushton and H. Walsh were appointed Branch

Representatives.

After her address, Mrs. IRVINE, on behalf of the members of the Association, presented to Mr. D. J. Rushton a silver cigarette case and a cheque to mark his completion of twenty-one years' service as secretary. A silver cigarette case was also presented to Mrs. Rushton.

### FIFTY YEARS AGO

### A Coroner on Patent Medicines

(From the C. & D., February 26, 1898) [AT an inquiry] on February 22, at Shoreditch, respecting the death of Emma Pulfer, a child of four years and nine months . . . the coroner said: If you are unable to decide what is the proper medicine, you ought to go to a doctor and let him choose for you. A chemist is a gentleman who has a certificate to sell drugs or patent medicines; he is trained how to mix drugs and medicines, but he is not the proper person to go to if you want advice.

. . Mr. G. W. Harris, chemist, 78 East Road, Hoxton, was called, and said he sold a little simple medicine for a cold, and thought he was within his rights in selling a thing he had ready put-up. Similar preparations were advertised in nearly all the newspapers in the country. The Coroner said that if every advertisement for patent medicine was torn up, and never another printed, it would be a good thing.

### CORRESPONDENCE

### Illegible Prescriptions

SIR,—Your correspondent, R. E. Bell C. & D., January 24, p. 127) hits the nail n the head when he says we have ourselves b blame for the inconvenience caused by octors' bad handwriting. With the help of wo qualified colleagues I have just had to aste more than half-an-hour deciphering ne scribbled directions on a script. ensible thing would be automatically to cturn all such scripts to the doctor with a equest that they should be re-written legily, but no pharmacist could afford to do his unless he was sure that his competitors vould all do likewise. A general refusal n the part of the profession to tolerate lovenly written prescriptions would soon nake the doctors see the error of their ways. Yours faithfully,

Palæographer.

### Preparedness for N.H.S.

SIR,—In brief reply to (1) Observer C. & D., February 21, p. 255): Let the harmacists who value the Insurance disensing worry over it; and to (2) Carpe Diem (ibid): Pharmacists are quite capable of holding their own if they are paid for t, and have certainly held their own whilst being poorly paid. Would Carpe Diem be inthusiastic over a situation offered to him f he was not told what the salary was to be? I repeat, when we know what we are offered, it will be time enough to spend part of the prospective remuneration on improvements.

Taunton.

Yours faithfully, W. VARLEY.

Sir,—Considerable emphasis has been laid recently on the preparations to be made in the individual pharmacies for a considerable increase in dispensing. At the same time we are informed that building will be carried out as soon as possible to provide central dispensaries. In this event, would it not be better for the individual pharmacist to await the issue of the terms of service under the Act, and then demand a plebiscite on the questions whether or not he is prepared to (a) work in his own dispensary on those terms of service; (b) work for an employer under contract; or (c) work in a public health centre? An expression of view should further be obtained from all qualified pharmacists as to whether they are prepared to be diluted with "technicians," We have fought against

unqualified dispensers in doctors' surgeries. Surely we must not countenance such a happening in our own dispensaries.

Yours faithfully.

Clacton-on-Sea. D. H. R. Moody.

### Labelling of Ampoules

Sir,—In the editorial of your issue of February 21, under the heading "A Fit Subject for Research," you call attention to the letter which Mr. Harold Dodd, F.R.C.S., addressed to the Council of the Pharmaceutical Society making recommendations regarding the labelling of ampoules containing anæsthetic solutions. We are in entire agreement with Mr. Dodd on this point. The indelible printing of ampoules, particularly those containing anæsthetic solutions, has occupied our attention for some time, and but for the delay in delivery of apparatus necessary to carry out the work, the method would have been adopted already. We hope to be able to announce very shortly that all ampoules containing anæsthetics are printed indelibly.

Yours faithfully, CIBA LABORATORIES, LTD.,

CHARLES W. S. TAYLOR, B.Sc., A.R.I.C., Horsham, Sussex. Sales manager.

SIR,-Mr. Harold Dodd (see C. & D., February 14, p. 218) gently "passes the buck" to the "pharmaceutical authorities." As surgeons and doctors are more particularly and directly concerned in these cases would it not be more logical that they should evolve a system and ask the pharmaceutical manufacturer to help them to put it into effect. The pharmacist exercises vigilance against a prescriber's carelessness, both in writing and posology, and has legally to shoulder the responsibility. In dispensing highly potent sub-stances it is customary for him to ask someone to check his weighing or measuring and the label. Until a system is evolved, might it not be possible for doctors and surgeons to adopt a similar practice? Personally I think the suggested colour scheme impracticable. The pure colour range is limited. It is noteworthy that the matter has been investigated from time to time. Has the subject of unqualified dispensers in hospitals had the same attention and investigation? It is equally serious.

Yours faithfully,
Anstruther. R. S. Whitelaw,

### TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

### 28 Essex St., W.C.2, February 25

An improvement in business on home trade account, after the lull in recent weeks, is reported by manufacturers of Pharmaceu-TICAL CHEMICALS. The supply position of the majority of products remains much the same, but there are indications that output of an important raw material—soda ash—is to be speeded up and this will no doubt be reflected in due course in the easing of supplies of a wide range of chemical products. It is understood that GLYCERIN for pharmaceutical uses is in short supply because of heavy demands of the plastic and other industries. No changes in the prices of FINE CHEMICALS have been noted and the market continues firm; manufacturers have been awaiting the F.B.I. and a further Board of Trade announcement on the control of prices.

### Crude Drugs

The markets for Botanical Drugs continue quiet with prices held at recent values. There is no indication of a general recession in prices although many mer-chants show a desire to entertain reasonable bids for a number of commodities which are attracting little attention at present. Curação Aloes is easier and lower quotations are given for Malefern. Jamaica Ginger is offered at 2s. 6d. per lb. less than in recent weeks. Cardamoms, Aleppy seeds, are dearer for spot supplies. The market for Gum acacia continues to strengthen. In other sections of the markets, Japanese Camphor is selling well; powder (B.P.) is offered at prices from 8s. 6d. to 9s. per lb., according to quantity, while slabs are at 9s. and 4-oz. tablets at 9s. 3d. per lb. Mentiol contablets at 9s. 3d. per lb. tinues easy in the absence of entrepôt trade in Brazilian material; the Board of Trade are not granting export licences unless payment is to be made in dollars or a convertible currency. Imports of MENTHOL into the United Kingdom during January totalled 12,596 lb., valued at £26,746, compared with the pre-war monthly average of 7.276 lb. (£3,721). No improvement is shown in supplies of BEESWAX and the market is displaying firmness. Substantial arrivals of Tragacanth have caused a further easing of prices and a good business has been done in white ribbon at £110 per cwt.

### Essential and Expressed Oils

Few changes have occurred in the quotations for Essential Oils and business has been rather slow in most sections of the market. Eucalyptus oil, B.P., has received a good inquiry and spot business has been done at 5s. per lb.; shipment quotations are around 3s., c.i.f.

In EXPRESSED OILS, ALMOND continues scarce, but there is a fair supply of APRICOT KERNEL on the spot. The Ministry of Food is to recommend the granting of further licences for the importation of OLIVE OIL (see p. 261), supplies of which continue much below demand. SESAME OIL is also very short and merchants are asking 62s. 6d. to 65s, per gall, for edible quality.

### Exchange Rates on London

Bank of England fixed rates at the opening on Wednesday morning were:-

Centre	Quoted	February 25				
*Alexandria Amsterdam *Bombay Brussels Copenhagen Dutch East Indies Dutch West Indies *Hong Kong Lisbon Montreal Montreal Moslo Paris Rio de Janeiro *Singapore Stockholm Zurich	Piastres to £ Florins to £ Pence to rupees Francs to £ Kroner to £ Florins to £ Florins to £ Pence to \$ Escudos to £ Dollars to £ Kroner to £ Francs to £ Cruz to £ Pence to \$ Kroner to £ Francs to £ Francs to £ Francs to £ Francs to £ Francs to £ Francs to £ Francs to £ Francs to £ Francs to £	$97\frac{1}{4}-97\frac{3}{4}$ $10.68-10.70$ $1-5\frac{1}{4}$ $1-1-6\frac{1}{4}$ $1-76\frac{1}{4}$ $1-1-6\frac{1}{4}$ $1-6\frac{1}{4}$ $1-6\frac{1}{4}$ $1-6\frac{1}{4}$ $1-6\frac{1}{4}$ $1-6\frac{1}{4}$ $1-6\frac{1}{4}$ $1-6\frac{1}{4}$ $1-6\frac{1}{4}$ $1-6\frac{1}{4}$ $1-7\frac{1}{4}$ $1-7\frac{1}{4}$ $1-7\frac{1}{4}$ $1-7\frac{1}{4}$ $1-7\frac{1}{4}$ $1-7\frac{1}{4}$				

\* Free market rates

### U.S. Drug and Chemical Report

New York, February 20

There have been no major changes in the U.S. markets for FINE and PHARMA-CEUTICAL CHEMICALS during the past week. Supplies continue to be short in many sections in face of demand. Manufacturers of synthetic Ephedrine say that they have sold all their output for the next three months and supplies are virtually unobtainable on the market.

A consignment of 4.000 flasks of Mer-CURY is reported to have reached the U.S. from overseas and this may include material from Spain as well as Jugo-Slavia. It is expected as a result that the current inside price of \$77 per flask may be shaded. The MENTHOL market is dull with

quotations at about \$8.85 per lb.

A general easing in prices is expected in domestic Botanical Drugs. On the other hand most imported items display firmness because of the small stocks in the country and uncertainty about future costs. Activity in the ESSENTIAL OILS markets has been variable over the past week and the easier tendency is expected to continue,

### Pharmaceutical Chemicals

COCAINE.—Rates per oz. are as follows:

LKALOID, CITRATE and SALICYLATE, bot-LKALOID, CITRATE and SALICYLATE, bottes, \(\frac{1}{3}\cdot \) \( \frac{1}{3}\cdot \) \( \frac{1}\cdot \) \( \frac{1}\cdot \) \( \frac{1}\cdot \) \( \frac{1}\cd ontainers.

CODEINE.—Current prices per oz., in the ome market, are: Alkaloid, ½ oz., oz., 47s.; 4 oz., 46s. 9d. Hydrochiloride, oz., 46s. 4d.; 1 oz., 44s.; 2 oz., 42s. 6d.; oz., 41s. 9d.; 4 oz., 41s. 6d.; Phosphate, oz., 40s. 9d.; 1 oz., 38s. 3d.; 2 oz., 6s. 9d.; 3 oz., 36s.; 4 oz., 35s. 9d. Hydrochide and Iodide as Alkaloid; Sultanta as Hydrochide and Sultanta as Alkaloid; Sultanta as Hydrochide and Sultan HATE as HYDROCHLORIDE.

EPHEDRINE.—Quotations for the ALKAoid are at from 10s. 6d. to 13s. per oz., as o quantity. Hydrochloride is quoted at rom 7s. 9d. to 9s. and Sulphate at 8s. to

s. per oz.

ETHYLMORPHINE.—Current rates per oz., n the home market, are: AlkAloid, † oz., 578. 6d.; 1 oz., 558.; 2 oz., 538. 6d.; 3 oz., 28. 9d.; 4 oz., 528. 6d.; Hydrochloride, † oz., 498.; 1 oz., 468. 6d.; 2 oz., 458.; 3 oz., 48. 3d.; 4 oz., 448.

GLYCERIN, B.P.—Current rates per cwt. are as follows :-

Contracts or spot ot of	Under 1 cwt.	and	2½ cwts. and under 5 cwt.	5 cwt. and under 10 cwt.	and under 20 cwt.
Minimum deliveries off contract of		I cwt.	ı cwt.	ı cwt.	2 cwt.
Tins:  14-lb.  18-lb.  15-lb.  1-cwt.  1-cwt.  10-cwt.	s. d. 156 6 153 6 150 6	9. d. 152 0 149 6 147 0	s. d. 151 0 148 6 146 0 135 0 133 0	s. d. 148 o 145 6 143 o 132 o 130 o 129 6	s. d. 147 0 144 6 142 0 131 0 129 0 128 6 128 0

1 ton and under 5 tons (minimum deliveries off contract of 5 cwt.), 14-lb. tins, 143s.; 28-lb., 140s. 6d.; 56-lb., 138s.; 1-cwt. drums, 127s.; 21-cwt., 125s.; 5-cwt., 124s. 6d.; 10-cwt., 124s. 5 ton and upwards (minimum deliveries off contract of 10-cwt.), 14-lb. tins, 141s. 6d.; 28-lb., 139s.; 6d. 56-lb., 136s. 6d.; 1-cwt. drums, 125s. 6d.; 21-cwt., 123s. 6d.; 5-cwt., 123s.; 10-cwt., 122s. 6d. Extra charges are levied for smaller deliveries, ex contract, from 6d. to 2s. per cwt., according to quantity. Refined pale straw industrial glycerin is 5s. per cwt. less than chemically pure. Terms: Carriage and delivery paid. A discount of 21 per cent. is deducted if paid in one month, or on buyers' regular monthly pay

day in the month following delivery; afterwards, net. Tins and cases free (not returnable). Drums loaned and invoiced at sellers' current rates and credited in full if returned within four months, carriage forward and in good condition.

HYPOPHOSPHITES.—Makers' rates per lb. for 7-lb. lots are: Ammonium, 9s. 3d.; Barium, 6s. 3d.; Calcium, 4s. 11d.; Iron, 9s. 4d.; Magnesium, 7s. 9d.; Manganese, 8s. 5d.; Potassium, 6s. 1d.; Sodium, 5s. 7d. HYPOPHOSPHOROUS ACID, in quantities of 6

Winchester quarts, is 6s. 2d. per lb.
IODIDES.—Prices (per lb.) of minor
Iodides are as follows: Ammonium, B.P.C., lodides are as follows: Ammonium, B.P.C., 7-lb., 15s. 9d., smalls, 16s. 3d.; Arsenic (triodide), B.P., 28s. 6d.; Cadmium, B.P.C., 22s.; Calcium, B.P.C., 19s.; Ethyl, 28s.; Iron, B.P.C., 14s.; Lead, B.P.C., powder, 18s.; Lithium, B.P.C., 20s. 3d.; Strontium, B.P.C., 18s. 6d.; Zinc, B.P.C., 19s. 3d.; Mercuric, B.P., 7-lb., 14s. 3d., smalls, 14s. 9d.; Mercurous, B.P.C., green or yellow, 7 lb., 18s. 6d.; smalls, 19s.

IODOPHTHALEIN, B.P.—Current price is

60s. per lb.

LACTATES.—Current quotations are as follows: Calcium, 2s. 4d. to 2s. 10½d.; Calcium sodium, 3s. 4d. to 3s. 11d.; Acid, 3s. 1½d. to 3s. 10d. per lb.

Magnesium carbonate (B.P. Levis).— Current rates per lb. in the home trade are as follows (containers in brackets): 28 lb. to 1 cwt., 1s. 6d. (1-lb.); 1s. 5d. (2-lb.); 1s. 4½d. (4-lb.); 1s. 3½d. (7-lb.); 1s. 3d. (14-lb.); 1s. 2d. (28-lb.) per lb. Bulk quantities range from 94s. to 99s. per cwt., as to quantity, carriage paid.

MAGNESIUM CARBONATE (B.P. POND.).-Current rates per lb. in the home trade are trates per 10. In the nome trade are as follows (containers in brackets): 28 lb. to 1 cwt., 1s. 9d. (1-lb.); 1s. 8d. (2-lb.); 1s. 7½d. (4-lb.); 1s. 6½d. (7-lb.); 1s. 6d. (14-lb.); 1s. 5d. (28-lb.) per lb. Bulk quantities range from 121s. to 131s. per cwt. as to quantity, in 28-lb. packages, carriage and

carriage paid.

MAGNESIUM OXIDE (B.P. LEVIS).—Prices MAGNESIUM ONDE (B.P. LEVIS).—Prices for the home trade (per lb.) are as follows: Containers in brackets, 28 lb. to 1 cwt., 3s. 5d. (1-lb.); 3s. 4d. (2-lb.); 3s. 3½d. (4-lb.); 3s. 2½d. (7-lb.); 3s. 2d. (14-lb.); 3s. 1d. (28-lb.) per lb. Bulk quantities range from 2s. 4½d. to 2s. 6d. per lb. in 28-lb. packages, as to quantity, carriage paid paid.

Magnesium trisilicate (B.P.).—Prices (per lb.) in the home trade are unchanged. Containers in brackets. 28 lb. to 1 cwt., 4s. 4d. (1-lb.); 4s. 3d. (2-lb.); 4s. 2d. (4-lb.); 4s. 1d. (7-lb.); 4s. 1d. (14-lb.); 4s. (28-lb.) per lb. Bulk quantities range from 3s. 2d. to 3s. 4d. per lb. in 28-lb. packages as to quantity carriage naid packages, as to quantity, carriage paid.

METHYL SALICYLATE.—Current rates are

as follows: Winchester quarts, 2s. 21d. per lb.; 56 lb., in demijohns. 2s. 1d.; 1 cwt., in demijohns or carboys, 2s. 0½d.; 5 cwt., 2s.

All prices are net,

### Crude Drugs

Aconite.—Indian root is quoted at 300s.

per cwt., spot.

Aloes.—Cape is offered at 155s, to 165s... spot; shipment offers are at 140s. to 142s., c.i.f. Curação in boxes is available at 230s., spot; forward, 210s., c.i.f., for prompt shipment. Socotrine on spot is quoted at 156s. to 190s.

ANISE (STAR).—Spot quoted from 120s. to 130s. per cwt.; shipment, 110s., c.i.f.

Annatto seed .- Steady. A parcel of Jamaica is quoted at 11d. per lb., c.i.f.

Areca nuts.—Cevlon on the spot offered at 67s, 6d. per cwt.

Arnica flowers.—3s. per lb., spot.

Asafetida.—Persian block is offering at £22 10s. per cwt., spot, with lower quality material down to £15.

Balsams.—Canada remains in short supply and is firm at 18s. 6d. per lb., spot. Pará Copaiba, spot, 5s. to 6s. per lb. for soluble. Peru, San Salvador, is offered at 6s. to 6s. 3d. per lb., duty paid. Tolu on spot, 19s. to 19s. 6d. per lb. quoted.

Barberry bark .- A parcel on the spot

is offered at 1s. 1d. per lb.

Bay leaves.—Leaves without stems 95s. to 105s. per cwt., duty paid, quoted.

Benzoin.—Sumatra almondy block on the spot is offering from £15 to £17 per cwt., as to quality, with almonds at £80 per cwt.; Siam almonds are quoted at 30s. per lb. with business done at this price.

Buchu.—B.P. leaves, old-crop, quotéd from 4s. 2d. to 4s. 3d. per lb., spot; new-

crop, 3s. 10d., c.i.f

Camphor—Chinese tablets (4-oz.) are quoted at 11s. 3d. per lb., spot; refined powder (B.P.), 10s. 3d. Formosa (B.B.), 9s. 6d.; 2½-lb. slabs, afloat, quoted at 10s. 6d. per lb., landed, duty paid. Chinese crude 93-95 per cent., 7s. per lb. Japanese material, ex Hongkong, on the spot, is available at lower prices.

Cantharides.—Chinese, spot, offered at 10s., duty paid; 6s. 3d. per lb., c.i.f.

Capsicums .- East African on the spot are offering at 90s. to 140s. per cwt.

CARDAMOMS. — Steady. Mangalore: Half-bleached A's, 8s. 6d. per lb., spot; B's, 8s., seeds, 6s. 9d. Aleppy seeds are dearer with 8s. 6d. per lb. quoted for No. 1; Aleppy greens, 6s. 3d., with extra bold at 7s.

Cascara sagrada.—Steady. 1947 peel is quoted at 265s, to 275s, per cwt., according to holder; 1946 is at 270s, to 275s.

CASCARILLA.—Quills have attracted interest with offers at 1s. 6d. to 1s. 7d. per lb., spot; siftings, at 1s. 5d. to 1s. 6d.

Chillies.—Mombasa is quoted at 135s. per cwt., spot; Sierra Leone, 140s., nominal; Nigerian, 100s.; Japanese-type, 190s.

CINNAMON .- Quillings are offered ex store at 1s. 6d., featherings at 1s. 3d., and chips at 9d. per lb.

CLOVES .- Zanzibar is offered at 93d. to 10d. per lb.; Penang, 3s. 6d. per lb., spot.

Cochineal.—Silver greys, quoted at 4s. 3d. per lb., spot; blacks, 4s. 6d.

Dragons blood.—Singapore reboiled No. 1 is at £70 per cwt., spot; second-grade material is available at £50.

Elemi.—Manila No. 1 is at 2s. 3d, per

lb., spot; f.a.q. white, 2s. 1d.

Euphorbium.—Spot quotations are maintained at from 85s. to 90s. per cwt. Frangula Bark .- Quills are offering on

the spot at 2s. 3d. per lb.

GAMBOGE.—Siam pipe on the spot is offered at £55 per cwt., duty paid.

Gentian.—French natural is offering at

80s. per cwt., spot.

GINGER.—Jamaica No. 1 is quoted at 117s. 6d. per cwt., spot; No. 2, 97s. 6d. to 100s.; No. 3, 92s. 6d.; new-crop No. 3 February-March, 87s. 6d., c.i.f. Sierra Leone is offered at 65s.; new-crop, February-April shipment, 56s., c.i.f.

GUAIACUM RESIN.—Quotations for lump

are from 2s. 9d. to 3s. per lb., spot.

GUM ACACIA.—Firm. Kordofan cleaned sorts, 70s. per cwt., spot London; March-April shipment, 60s. 6d., c.i.f. Bleached No. 1, quoted at 140s., ex store. Talha cleaned, 40s. per cwt., ex warehouse; shipment, 36s., c.i.f.

GUM MASTIC.—Quiet. No. 1 is offered at

14s. per lb., duty paid.

HENBANE.—B.P. is quoted at 4s. 6d. per lb., spot. Egyptian (H. muticus) is offered at 105s. per cwt., spot; 80s., c.i.f.

Henna.—Egyptian is offered at 125s, per cwt., ex warehouse; Indian, 140s. per cwt.

Honey.—Agreed rates per cwt. for Australian or Jamaican honey, for manufacturing purposes, are as follows: In original packings (56-60 lb. tins for Australian or 3½-cwt. barrels for Jamaican), for quantities of 10 cwt. or more, 96s.; less than 10 cwt., 105s., net, carriage paid. Refined repacked honey is available at the following rates per cwt.: In 7-14-lb. tins, 145s.; 28-lb. tins, 130s.; 56-lb. tins, 120s., carriage paid, subject to wholesale discount of 8½ per cent.

Horehound.—Best white French herb is

offering at 89s. per cwt.

IPECACUANHA.—Nicaraguan remains at 28s. 6d. to 30s. per lb., spot; shipment, 26s., c.i.f.; Colombian root, 28s., spot, and 25s. per lb., c.i.f.

IRISH MOSS. — French finest-quality bleached, quoted at 120s. per cwt., spot; No. 1, 105s.; No. 2, 95s. per cwt.

JALAP .- Vera Cruz, spot, offered at prices from 3s. 5d. to 4s. per lb., as to test (15 to 17 per cent, resin).

LIQUORICE.—Anatolian natural root is firmly maintained at 57s. 6d., on the spot. Syrian natural is offered at 45s. per cwt. on the spot. Italian block, 375s. per cwt., spot. Italian stick (1-oz. and 2-oz.) is quoted from £450 to £535 per ton, as to quantity and grade.

Menthol.—Little business is being done in Brazilian in the absence of export trade; merchants, generally, are asking from 45s. per lb., duty paid, for spot, and 43s. in bond; there are sellers at lower prices. Chinese, of which there is little available

on the spot, is worth 60s, per lb.

SEEDS.—Very little interest shown in spot parcels during the last few days. ANISE.—Cyprus, 1s. 9d. per lb., and Turkish 1s. 8½d. per lb., spot London or Liverpool. CARAWAY.—Dutch is offered at 11½d. per lb., duty paid, spot London. CELERY. -Indian quoted at 1s. 4d. per lb., spot London or Liverpool. CORIANDER.—Argentine is offered on the spot (London) at 45s. per cwt., duty paid, and split seeds at 40s. per cwt., duty paid. No first-hand parcels of Morocco are offering. CUMIN.—Indian quoted at 215s. per cwt., spot Liverpool or Hull; Cyprus spot London offering at 217s. 6d. per cwt. DILL.—Indian, spot London, is 47s. 6d. per cwt., and 45s. per cwt., ex store Liverpool. FENNEL.—Indian is quiet and unchanged at 72s. 6d. per cwt. spot London, and 71s. 6d. per cwt. in Liver-Fenugreek. — Indian offered at pool. 47s. 6d. per cwt., spot London, and business done at 45s. per cwt., ex store Liverpool.

SQUILL.—Italian white is quoted at 67s. 6d. per cwt., spot; Italian red, 84s.,

spot.

STROPHANTHUS.—100 Kombé is offered

at 12s. 6d. per lb., spot.

Styrax.—Merchants are asking 9s. per lb., duty paid, for small quantities available on the spot.

Tragacanth.—Steady. Selected white ribbon on the spot is offered at £110 per cwt.; other white grades, from £60 to £100; pale leaf, £35 to £52; amber, £23 to £33; red, £13 to £17; hoggy, £6 to £10.

Turmeric.—Madras finger is nominal at 120s. per cwt., spot; April-May shipment,

105s., c.i.f.

Waxes.—Dar-es-Salaam Bees' on spot, is quoted at 385s, per cwt., nominal; Lindi, 375s., nominal. Benguela is quoted at 365s., duty paid; shipment, 315s., c.i.f. CANDE-LILLA.—Steady at 400s. per cwt., spot, and shipment, 380s., c.i.f. CARNAUBA.—Fatty grey on spot, 520s. per cwt.; shipment, 500s., c.i.f. Prime yellow, spot, 850s. per cwt.; shipment, 800s., c.i.f. Montan.— 500s., c.i.f. Prime yellow, spot, 550s. per cwt.; shipment, 800s., c.i.f. Montan.—Steady. Reibeck is offering at 350s. per cwt.; Czecho-slovak crude, 300s. Ounicuri.—6 per cent., on spot, 375s. per cwt. Shipment, 1 per cent., 430s., c.i.f.; 2 per cent., 425s., c.i.f.; 5 per cent., 400s., c.i.f.

#### Essential and Expressed Oils

Almond.—B.P. (sweet) is quoted at from 11s. to 12s. 6d. per lb. Bitter essential oil is quoted from 30s. to 55s. per lb., according to quality and seller.

ANISE.—Spot, Chinese star in drums is offered at 6s. to 6s. 3d. per lb., and in tins at 6s. 3d., with up to 7s. for smalls; shipment, 5s. 3d., c.i.f.

APRICOT KERNEL.—Small supplies available on the spot are offered at 9s. to 10s. per lb.

BAY .- Prices of West Indian are unchanged at 7s. to 8s. 6d. per lb., spot.

Cade.—Prices are from 4s. to 5s. 6d. per lb., according to holder and quantity.

CAMPHOR.—White oil of good quality is offered at 3s. to 3s. 6d. per lb., duty paid. Cananga.—Java oil, spot, is quoted from

35s. to 40s. per lb., 27s. 6d., c.i.f.

CARAWAY.—English-distilled is offered at from 38s. to 40s. per lb.; imported oil is quoted at from 30s. to 32s. 6d.

Cassia. — Spot quotations are from 15s. 6d. to 17s. per lb., as to quantity.

DILL.—English-distilled oil is quoted at 62s. 6d. per lb.

Lemongrass.—Spot supplies are offered at 8s. to 10s. 6d. per lb., according to holder and quantity.

Nutmeg.—English-distilled oil is offered at from 39s. to 45s. per lb.

Otto of Rose.—Bulgarian on the spot worth about 250s, per oz.

PATCHOULI.—Spot quotations are from 50s. to 60s. per lb. for Seychelles and 75s. to 80s. per lb. for Singapore.

Pennyroyal.—Steady on the spot at from 21s. to 25s. per lb., according to quantity and seller.

PEPPERMINT,—English-distilled "Mitcham," in limited supply, is quoted at 200s. to 225s, per lb.

PIMENTO BERRY.—English-distilled oil is quoted at 47s. 6d. to 57s. 6d. per lb. and upwards, according to quantity and grade. Sandalwood,—English-distilled, in limi-

ted supply, is quoted at 75s. to 90s. per lb. Sassafras.—Only a small supply avail-

able on the spot. Holders are asking from 6s. 6d. per lb. and upwards.

Sesame.—Refined edible oil is quoted at from 62s. 6d. to 67s. 6d. per gall. of 9 lb.

THYME. — Red oil (40-42 per cent. phenols), 13s. 6d. to 16s. per lb.; white oil, 17s. to 18s. 6d. per lb., spot.

TI-TREE.—Supplies on the spot offered at from 8s. to 10s. per lb., according to quantity.

TURPENTINE.—Rectified (B.P.) is quoted at 2s. 6d. per lb. in carboys.

Vetivert.—Java is quoted at 135s. per lb., on the spot; Bourbon, 125s. to 145s.

YLANG YLANG.—Bourbon is quoted at 65s, to 100s, per lb., as to grade and seller.

#### TRADE MARKS

(From "The Trade Marks Journal," February 4) Initials "V. M." surmounted by crown; for fatty acids, esters, glycerin and derivatives (1). By Victor Wolf, Ltd., Victoria Works, Clayton, Manchester, 11. B649,607.

"VERSATOL"; for photographic chemicals (1). By Kodak, Ltd., Kodak House, Kingsway, London,

W.C.2. 654,521 (Associated). "Paropon" "Uvitex"; for chemical products used in industry and science (1). By Ciba, Ltd., 141 Klybeckstrasse, Basle, Switzerland. 655,381-82.

"PARFUMS VERLAYNE" on label device; for perfumes, toilet preparations (not medicated), cosmetics, etc. (not included in other Classes), soaps and essential oils (3). By Parfums Verlayne, 9 Rue du Faubourg, Paris, France. B462,578.

"Vel-Matt" (word "Matt" disclaimed): for non-medicated toilet preparations; toilet soap and cosmetics (3). By Delavelle (G.B.), Ltd., 38 Orsman Road, London, N.1. 647,253 (Asso-

ciated).

"BINT EL BALAD"; for non-medicated toilet preparations, cosmetics, soaps, perfumes and perfume bases (3). "Lac Du Cygne"; for perfumes, essential oils, toilet preparations (nonmedicated and non-saponaceous), cosmetics and hair preparations (3). By Hauer & Co., Ltd., Shaddon Mills, Carlisle. 651,332 and 651,495.

"PHILMAR"; for perfumes, cosmetics (not being toilet preparations), hair lotions and dentifrices (3). By Martin, Phillips & Co., Ltd., 16 Cob-

den Street, Leicester. 651,633.

"CHAINE D'OR"; for non-medicated toilet preparations, perfumes, cosmetics and soaps (3). By Société Anonyme Grenoville, 110 Avenue

Pereire, Asnières, France. 652,846.

"SKREEN"; for perfumes, toilet preparations (not medicated), cosmetics, etc. (not included in other Classes), soaps and essential oils (3); for pharmaceutical preparations and substances, but not including medicated confectionery (5). By R. Demuth, Ltd., 68 Salusbury Road, London, N.W.6. B652,897 and 652,898 (Associated).

Woman's head and hand on label design; for perfumes, toilet preparations (not medicated), cosmetics, soaps and essential oils (3). By R. Hovenden & Sons, Ltd., 29 Berners Street,

London, W.1. B653,350.

"ROSEMARY SEFTON" facsimile signature; for toilet preparations (not medicated) and cosmetics (3). By Rosemary Sefton, Furnace House, Machynleth, Montgomerys. 655,008.

"Gulshan"; for non-medicated toilet preparations, cosmetics, perfumes, soap, etc. (3). By Anglo Indian Drug & Chemical Co., 285 Juma Musjid,

Bombay, India. 655,096.
"PARKISSE"; for non-medicated toilet preparations, cosmetics perfumes, essential oils and soaps (3). By Parkinsons, Ltd., Curzon Street, Burnley, Lancs. 655,133.

"NICOVEL"; for pharmaceutical preparations (5). By Vitamins, Ltd., 23 Upper Mall, London,

W.6. 653,636.

"PLNOMIDE"; for all goods (5). By May & Baker. Ltd., Dagenham, Essex. 655,212 (Associated).

WIZAR "; for insecticide paper (5). By Colorol Ltd., 125 Powys Lane, London, N.13. 651,54

" MENTHO-PELS"; for pharmaceutical preparation containing menthol (5). By Cal-ma-vite Laboratories, Ltd., 32 North Street, Horsham, Sussex B643,967.

"CLARATEX"; for pharmaceutical preparations and surgical dressings, etc. (5). substances, K. A. Thiel, Ltd., 2 York Villas, Brighton, 1

Sussex. 647,165.

"PICKLES FOOT OINTMENT" and facsimile signature "J. Pickles" on label design; for foo ointment (5). By J. Pickles & Sons, 984 Wakefield Road, Bradford, Yorks. B647,240 (Associated).

"Solmacos"; for camphosulphonic acid and com-· pounds thereof, all for pharmaceutical purposes (5). By Hirst, Brooke & Hirst, Ltd., Sheepscar Works, Leeds. 653,118.

"Polyron"; for pharmaceutical preparations and substances for internal use (5). By Clinical Products, Ltd., 2 The Green, Richmond, Surrey. 653,821.

"COMMANDO"; for pharmaceutical preparations and substances, but not including medicated wines (5). By South Eastern Chemicals, Ltd., 23 Main Street, Assington, Colchester, Essex. 654,663.

" MAGTHIMAN"; for pharmaceutical preparations containing magnesium (5). By Henry Alexander

Fuller, 48 Randyford Street, Falkirk, Stirling-shire. 655,340.

"Barbephine" "Barbidonna"; for medicated preparations (5). By Nor-Sun, Ltd., 160 Central Drive, Blackpool. 655,457 and 655,459 (Associated).

"ALCOTONA"; for medicated wines (5). By Gay Wines, Ltd., 318 Uxbridge Road, Acton Hill,

London, W.3. 655,551.

Design of three flying birds in circular device; for powder puffs (21). By Francis Thornton & Roberts, Ltd., 17 Colebrook Row, London, N.1. 653,266.

#### APPLICATIONS AMENDED AFTER ADVERTISEMENT

Specification No. B639,345 by Carlton Laboratories, Ltd., has been altered so as to read: "Antirheumatic medicated pine bath extracts in liquid, tablet and crystal form."

(From "The Trade Marks Journal," February 11)

"EKTACOLOR"; for photographic chemicals and sensitised materials, all for use in colour photography (1); "DENSIGUIDE"; for photographic exposure indicators, photographic density meters and devices for determining photographic exposures (9). By Kodak, Ltd., Kingsway, London, W.C.2. 653,004 and 654,541 (Associated).

"Pevec"; for all goods (1); "Curidium" and
"Vasiodone"; for all goods (5). By May & Baker, Ltd., Dagenham, Essex. 653,070, 654,659

and 655,561.

" SERFOLEX "; for chemical products used in industry, science and photography (1); "BENTfor insecticides, fungicides, and preparations for killing weeds and vermin (5). By Bayer Products, Ltd., Africa House, Kingsway, London, W.C.2. 655,093 and 655,089.





'Codalgin' analgesic tablets are now stronger. With gr. 5 Bayer Aspirin, gr. 2½ phenacetin and gr. 1/10 codeine phosphate, 'Codalgin' has a high pain relieving content in a tablet of minimum size.

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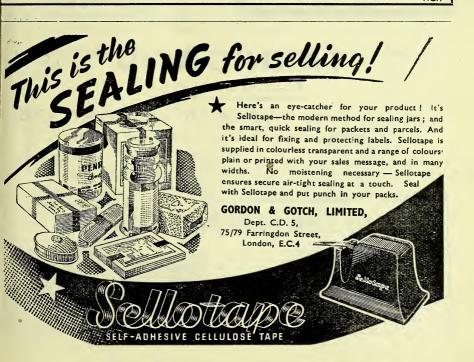
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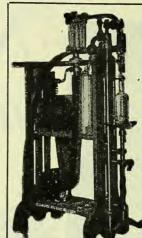
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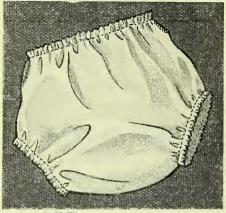
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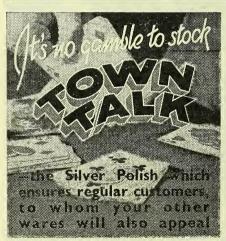
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Following widespread acceptance of the new anti-colic design by Nursing and Medical Authorities, extensive advertising support in the National Press and Women's

Magazines is rapidly stimulating demand for the "Modern" Teat. Available in attractive counter display outers of three

dozen, through wholesalers only. Fixed

retail selling price 6d.



Je "MODERN" ANTI-COLIC TEAT

THE CANNON RUBBER MANUFACTURERS LTD., LONDON, N.17

SURGICAL DRESSINGS



SANITARY TOWELS

SPECIAL OFFER

FIRST AID CASE IN HEAVY BLACK METAL FOR UNDER 50 PERSONS 16/6 ea.

WRITE CROSSKILLS' OF NORWICH

TEL.: CANONBURY 3401

#### BUCKLEY BOWKER TABLET CO. LTD. PARKFIELD STREET, LONDON, N.I

OVER 40 YEARS' PRACTICAL EXPERIENCE

COMPRESSED TABLETS

EVERY KIND AND SHAPE, BULK OR PACKED, UP TO 14" SQUARE OR ROUND.

PRIVATE FORMULAS COMPOUNDED BY EXPERTS

We have specialised CONTRACEPTIVES (Special Formulas), TABLETS and JELLIES

## Important Price Announcement from Gillette

This is to confirm that current retail prices of Razor Sets, including purchase tax, for Great Britain and Northern Ireland, are as follows:

#### Gillette

No.	25	Set	3/6d.	No.	48	Set	13/6d.
,,	31	,,	4/10d.	,,	40	,,	33/-
- ,,	27	,,	5/6d.	,,	15	,,	32/-
,,	44	99 `	6/-	,,,	21	,,	27/6d.
,,	77	99	7/-				

#### Valet

No. 99 Set	8/9d.	No. 1 Set	59/9d.
,, 101 ,,	12/-	,, 50 ,,	56/6d.

(The above prices do not apply for the Channel Islands)

Gillette Industries Limited. Gillette Corner, Great West Road, Isleworth, Middlesex



#### handhox shampoo

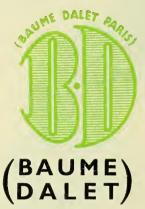
Introducing—especially for dry hair

bandbox cream shampoo

To be nationally advertised and available March 1st onwards from your wholesaler or direct. Jars 4/8 including Purchase Tax. 28/6 dozen plus Purchase Tax. Ashe Laboratories Ltd. 120/122 Victoria Street, London, S.W.1.

Ship

### There's Extra profit for you in



Made expressly for Bunions

One thing about B.D. (Baume Dalet)-it is extra business for you-not just a substitute for something you already sell.

Another thing, it is highly satisfactory business. We are receiving literally hundreds of letters from Bunion sufferers all over the country thanking us for the relief B.D. (Baume Dalet) has brought them.

From your Wholesaler or direct from:

#### SPLENDOR LABORATORIES

Sole Distributors for U.K.

7c, LOWER BELGRAVE STREET, LONDON, S.W.I

and at NOTTINGHAM.

Share Pushing is Illegal but

YOU MAY PUSH . . .

## POMADE of PERU & **LIQUID PERU EXTRACT**

ALL ORDERS SHOW 32% PROFIT Incl. P.T.!!!

Example I doz. order 2/11 size Pomade or Liquid:—

COST PRICE:-

SELLS AT:-

I doz. units @ 21/- £1 · 1 · 0 P.T.

I doz. 2/II units £1 · 15 · 0 2 only 2/11 bonus 5 · 10

Cost incl. tax £1 · 8 · 0

£2' · 0 · 10

Example I doz. order 5/- size Pomade or Liquid:-

COST PRICE:-

SELLS AT:-

I doz. units @ 36/- £1 · 16 · 0

I doz. 5/- units

P.T. 12 · 0

2 only 5/- bonus

10 . 0

Cost incl. tax £2 · 8 · 0

£3 · 10 ·

Retail prices of POMADE of PERU & LIQUID PERU EXT. 2/II & 5/-

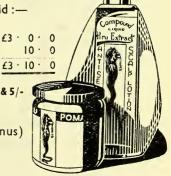
All orders are 14 to the dozen.

Minimum order of either line I doz. (plus 2 bonus)

Send a P.C. for List to

POMADE of PERU CO.,

357 WANDSWORTH ROAD, LONDON, S.W.8



## Sell with Confidence... these two quality OZONOL products



Personal Hygiene—germicide, antiseptic.

R.W. Co-ef. 4.64. Non-poisonous. 1/8-5½ oz. bot. Trade 12/- + 4/- P. T. 2/9-10 oz. bot. Trade 18/- + 6/- P. T.



For home use, particularly in bathrooms, lavatories, etc.
Cabinets 5/8 complete,
Trade 42/- + 12/- Purchase Tax.
Refills 2/-. 18/- Tax Free.



You can Buy and Sell both of these popular lines now! To help you, and us, early orders would be appreciated.

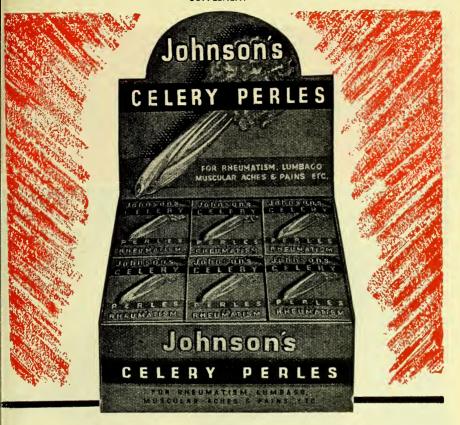
★ Send for price list of all

OZONOL Products

OZONOL LABORATORIES (1930) LTD

NEW WHARF ROAD, LONDON, N. I

TERminus 3727 and 6660



## ONE OF THE MOST ATTRACTIVE DISPLAYS ON THE MARKET. JOHNSON'S CELERY PERLES.

We are receiving reports from all over the country of the effectiveness of Johnson's Celery Perles for the relief of Rheumatism and Lumbago. Chemists are finding that they may recommend this line with complete confidence, and that their customers will thank them for such advice. Both the carton containing the bottle of Celery Perles and the display outer are outstandingly attractive and go a long way to assist chemists to build up a steady and lucrative turnover. This is a line you can be proud to sell.

Cost 18/- doz. plus 333% purchase tax. Retail at 3/3 per bottle (inc. tax).

Order through your usual wholesaler or direct from:-

JOHNSON AGENCIES (PROPRIETARIES), LTD.
32-40 NORTH STREET, HORSHAM, SUSSEX

## Sunglasses for the 1948 Season



From your usual wholesaler

Wholesale enquiries to

ALFRED FRANKS & BARTLETT CO., LTD.
AUDREY HOUSE, ELY PLACE, LONDON, E.C.I.



ESSENTIAL FOOD AND DRUG CONTAINERS, MEDICAL FLATS AND PANELS, ETC., ETC.

The essential needs of the nation still demand priority. To those planning ahead we invite enquirles for Glass Container Requirements.

Wholesale & Export Only

London Office :-

29 Ludgate Hill, E.C.4
Telephone: CITY 7170

LAXESHAW

REGD. OFFICES: Albert Glass Works, Hunslet, LEEDS, 10

Telephone: 21568 (2 lines)

Telegrams: Feeders Phone Leeds





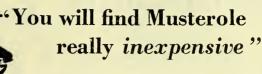
## "ZEMS" HERBAL LICORICE TABLETS

THE BEST MEDICATED TABLETS
FOR COUGHS, COLDS,
ASTHMA, BRONCHITIS, ETC.

Supplies may be obtained from C.F. Wholesale Houses.

ZEMS, LTD.

718-724 Seven Sisters Road, London, N.15



Yes, inexpensive because Musterole lasts longer, does more good. Read the fine Musterole formula — you'll agree that it should cost a little more. The best products always do. Don't forget — recommend Musterole. Your customers will thank you for it.

Musterole sels at 3/2 per pot and brings you 3/8 per doz. extra profit over normal quality vapour rubs.



★ All the comforting warmth of a mustard plaster
—but easier to apply—you simply rub it in.



so makers of JIFFY DY
ade by Wm. EDGE
NS LTD. - BOLTO



#### LEDA CHEMICALS LTD

Advise the Trade that their well-known

#### D.D.T. Products

will again be available this season

No increase in Prices

				n 1	me. 11
				Per doz.	To sell at
11	FDA	DD	T. Powder	12/-	1/6
-					
	,,	,,	Liquid Spray	13/4	1/8
			(non-inflammable)		·
	, ,	,,	Horticultural		
	,,	,,		00/	011
			Spray (I-pint) -	20/-	2/6
		,,	Cards ("Peter		
	,,,	""			3d.
			Panda'')	2/-	3a.
			Household	•	
	11	,,,			
			Spraying Outfits	49/6	5/6
				,	-/-

Enquiries addressed to us will be passed on to the wholesale trade for attention.

Sole Agents for N. Ireland: Whyte Reid & Mitchell, Ltd. 61/63 Donegall Pass, Belfast. Sole Agents for Scotland: Southern Mfg. Co. Ltd. 214 West Regent Street, Glasgow, C.2.

#### LEDA CHEMICALS LTD WHARF ROAD, PONDERS END, MIDDX.

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#### CONTROL OF HEAD LICE

Nits and Head Lice can now be dealt with quickly and economically without unpleasant evidence of treatment.

An N.W.F. formula now being used extensively by Public Health Authorities.

### Sempro

#### MEDICATED (LETHANE) HAIR OIL N.W.F.

Insecticide for control of Nits and Head Lice

'SEMPROLIA' MEDICATED (LETHANE) HAIR OIL IS IN URGENT AND RAPIDLY INCREASING DEMAND

Retail (2-oz.) 1/3d. including P.T. List 8/- doz. Packed in 2-dozen outers. P.A.T.A.

STEMCO LTD., 128, Albert Street, London, N.W.1 Agents in Eire-May Roberts (Ireland) Limited, Dublin

## Keenest and Cleanest URGICAL STEEL

There isn't a blade made than the new "Wanie," now designed with cut-out corners, fully slotted to fit ALL holders, and manufactured from High-Grade Surgical Steel. Selling at 1/9 per dozen including purchase tax, "Wanie" is shaving's best value. Free Showcard for your counter. Send for stocks today.

1/9d. per dozen including P.T.

#### LONDON & PROVINCIAL FACTORS LTI

"Wanie" House, Tottenham Court Rd., London, W NAME YOUR USUAL WHOLESALER Wholesalers Enquiries Specially Invite

HARVEY'S Horse Remedies P.A.T.A. Protected Prices Supplies can be obtained through all Wholesale Houses HARVEY & CO. (DUBLIN) LTD.,

DUBLIN ........





Containers of Metal Glass, Aluminium and Plastic

Tel: Hop 0516 (6 lines) PERCENTA LID.) Percenta House, 130/2 Tooley Street, London, S.E.I.

## ADELESS

STOCKING (except Black), 16/- gross CURTAIN & COLD WATER, 24/- gross

(including Black Stocking)

Please order from our Sole Agents

Gt. Britain-W. B. Cartwright, Ltd., Rawdon, Leeds N. Ireland-T. McMullan & Co. Ltd., 42, Victoria Street, Belfast Eire-May Roberts (Ireland) Ltd., Grand Canal Quay, Dublin, C.6



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ibutors (except Canada)

NAPE'S NEEDLE-this famous Lakeland rock, 60 ft. high, first climbed in 1886, typifies the enduring qualities of ( Lewis

HYPODERMIC NEEDLES & SYRINGES

The very pinnacle of fame achieved by Vim Needles and Syringes is due to vital and distinctive qualities long recognised by all medical men who use them and habitually order them by

VIM STAINLESS STEEL HYPODERMIC NEEDLES. Needles outlast three to five needles made of ordinary steel. They are rust-resisting, with razor-sharp edges.

VIM HYPODERMIC SYRINGES. Special "heat-resistant, slowground" glass; individually mated glass plungers working in individually calibrated barrels. Repair service available. Sizes up to 20 c.c. Limited supplies.



Head Office: THE OLD MEDICAL SCHOOL, PARK ST., LEEDS, 1
Also at 38 WELBECK ST., LONDON, W.1

#### iority claim

HE meat and malt in Winox-which s and nurses have mended for the past years - has been ested by a special Supplies are so please help us to priority claim to who need it most.

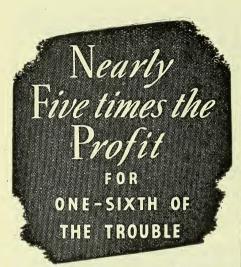
Sole Distributors:

& WARBURTON LTD' XHALL BRIDGE ROAD, 8.W.1.

OYS WINES LTD., KINGSTON, SURREY







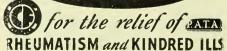
The 26/5 size 'Curicones'—the FULL treatment-is the size your customers ask for. This choice is wise both from their point of view and your own.

#### YOU ENJOY THESE ADVANTAGES BY STOCKING THE CURICONES 26/5 SIZE

- . You make nearly five times the profit for one-sixth of the trouble. (The 26/5 size contains six times the quantity of the 5/6 size).
- 2. You sell the equivalent of six bottles of 'Curicones' at one sale - and thus avoid the customer buying only one bottle from you, and the other five bottles elsewhere.
  - 3. Your turnover is quicker. Time is saved.
- You are cementing goodwill. Obstinate cases of Rheumatic affliction yield to the full course of Curicones.

ORDER A & DOZ. FROM YOUR WHOLESALER TO-DAY—and satisfy your customers.

## URICONES



Temember "Curicones is a PATA Line showing 33% profit, nationally advertised and recommended by the medical arrategion. Showcard sent on request

STEPHEN MATTHEWS & COMPANY LIMITED 191/2 FARRINGDON STREET, LONDON, E.C.4.



Your holiday-making customers were deli-with Brontan Sun-Tan Cream. Now, they' ready to try other Brontan products if you them and talk about them.

This Winter. -do well again

-also in the Brontan family-Ann Rose Beautifying Complexion Powder and Ann Rose Vanishing rowder and Ann Rose Vanishing Cream. Both are fine, chiffon-soft and delice perfumed. Attractively boxed, the powder sel four popular shades, retailing at 3/- and 4/4½ ( P.T.). The Vanishing Cream, in neat, handy is 2/3½ (incl. P.T.).

BRONTAN Ltd., I Broad St. Buildings, Liverpool St., E.C.2. Phone: BIShopsgate 6383



pure HONEY, GLYCERINE & LEMON Cough Linctus

a popular product at a popular price, madefrom real Lemon Juice, pure Honey and Glycerine. The ingredients speak for themselves - you cannot afford not to stock this quick-selling line.

Ask also for particulars of our other pure food products Distributors Sole Distributor.
Scotland & North.
Scotland: Pharmaceutical Distributors WINTER ADVERTISING Ltd., Yincent Street.

CAMPAIGN includes leading newspapers in all districts. Now is the time stock and display.

Manufactured by

Glasgow,

D. Bee Food Products Ltd., New Charles St., Goswell Rd., E.C.I





ABERDEEN SCOTLAND



### - builds winter sales

"The butterscotch flavour" will again be in favour. Last year's customers will come again for more, and they will recommend others to " Autumn Sun." National advertising will bring in the season's new business to stockists, for whom there is this FREE and



in the form of a full-colour, self-standing showcard (only 91 x 81 inches) holding a 1-lb. actual jar with its attractive label.

> Retail prices are right and trade terms generous. On P.A.T.A. list.

STREET, W.I REGENT HOUSE, DME LTD., IMPERIAL

ephone REGent 5563-4. 'Grams " EDME." Piccy London. Works: MISTLEY, ESSEX

## GRIMSBY

COD LIVER OIL & HALIBUT LIVER OIL PRODUCTS

Are you meeting the Demand?

Our products include:

GRIMSBY COD LIVER OIL.
GRIMSBY 50% COD LIVER
OIL EMULSION (with or without Hypophosphites)

COD LIVER OIL CAPSULES.
HALIBUT LIVER OIL.
HALIBUT LIVER OIL CAPSULES.
ORANJUICE A.D., etc.

Full details and trade terms on request

FAIRBANK KIRBY (Grimsby) LTD., Manufacturing Chemists

ROPERY STREET, GRIMSBY

- IS PRIZE MEDALS AWARDED



EU.CRYL LIMITED . SOUTHAMPTON

#### ASMIDAR SPECIALITIES

#### PIPERAZINI



This highly efficien antiseptic of the Urinary Tract is prescribed for Gout Rheumatism, Inflamed Joints, Urinary Calculil.

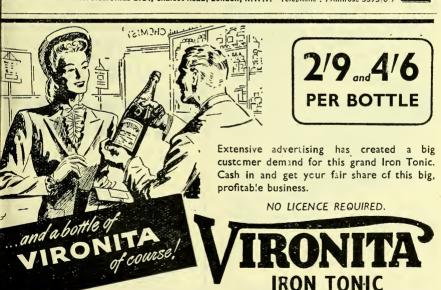
Other Asmidar Specialities Include Glutonine (Asmidar), Sulphazol Cream (Asmidar) and Ichthammol B.P.

Literature and full information gladly supplied on request

ASMIDAR LTD.

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CALTHORPE & COMPANY LIMITED, Manufacturing Chemists, OSSETT

#### Announcing



#### NEW FOOD CONTROLS ITS OWN DIGESTION

FEEDING for those with impaired digestion is always a difficult problem. Adequate nourishment must be provided with a minimum strain on the digestive system.

Inglis Food has been specially prepared to fulfil these two important functions.

#### CONTROLLED DIGESTION

All foods stimulate acid necessary for their digestion. But some produce more than they require. An over-active digestion produces an excess of acid, which can be the cause of many gastric complaints.

Inglis Food is so balanced that it does not stimulate an excessive amount of acid and absorbs what it produces—digestion is

controlled.

Hospital use has shown that even patients suffering from severe digestive disorders

benefit from Inglis Food.

Inglis is a highly nutritious food. It is a specially refined oat flour to which Iron, Phosphorus, Calcium, Vitamins D and B<sub>1</sub> have been added.

#### INGLIS FOOD

PREPARED FOR A. & R. SCOTT LTD., COLINTON MIDLOTHIAN, BY JOHN INGLIS & SONS LTD., EDINBURGH

#### BEAR SAME HONEY

Purity & Quality



As direct importers from all the main Honey-producing Countries of the World, we can supply Standard Grades of the finest Honey for all Manufacturing purposes.

L. GARVIN & CO. LTD.

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• INCREASES

## TELLODONT

ANTISEPTIC GARGLE

Now available through your wholesaler

OR DIRECT FROM :-

#### TELL PRODUCTS

MANUFACTURING CHEMISTS
22-24. ROSEMONT ROAD

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TELEPHONE: HAMPSTEAD 9203

## A SINGLE\* SUPPLEMENT FOR MULTIPLE VITAMIN DEFICIENCIES

### Complevite

\* The recommended adult daily dose provides: vitamin A 2,000 i.u., vitamin D 300 i.u., vitamin B<sub>1</sub> 0.6 mg., vitamin C 20 mg., calcium 160 mg., iron 68 mg.: iodine, manganese, copper, not less than 10 p.p.m each

Retail cost of 20 days' supply (120 tablets) 5/-. Trade discount 333%

**New Publication:** 42 pp. book, "Vitamin Therapy—its uses and limitations," with therapeutic index; also new Price List, free on application.



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Vitamins Limited
(Dept. C.D.) Upper Mall, London W.6

THERE IS NOT SUFFICIENT

Beaulahs

FAMOUS MALTED MILK

For all the people who want it.

r policy therefore is distribute all available plies to our Chemist ends only.

one popular size 2/6

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& J. BEAULAH

LIMITED LINCS.



public know that a tin of OATREX is a tin of

OATRITION

nquiries to Kings of Kingsbury (Sales), Ltd., 1. London Bridge. S.E.1.

KINGS PATENT PRE-COOKED OATMEAL

#### CONTINUOUS PERFORMANCE

Doctors are very pleased with the sustained activity of Gelusil\* Antacid Adsorbent Tablets and these are prescribed ever more frequently.

Containing a specially processed non-reactive alumina which is not destroyed at gastric pH and which is not converted to soluble, astringent aluminium chloride, Gelusil affords uncomplicated relief in peptic ulcer.

Its long-lasting benefits and exceptional freedom from undesirable effects render Gelusil an excellent profitmaking item.

SUPPLIES: Boxes of 50 tablets individually wrapped in moisture-proof cellulose film.

RETAIL PRICE 4/- (inc. P.T.) LIST PRICE 28/6 per dozen (plus 9/6 P.T.)

GELUSIL

\*TRADE MARK HEG.

William R. WARNER and Co. Lid

POWER ROAD LONDON W.4



Creators of high-class Perfume Compounds and makers of Aromatic Chemicals and Technical Deodorants.

FIELD & Co. (Aromatics) Ltd.,
Alperton, Wembley, Mdx.

#### Fortifies Food..

• A little VIRDOX sprinkled over food c in beverages adds valuable yeast vitamin to the ordinary diet. Recommended t correct malnutrition, digestive troubles lassitude, anæmia and "nerviness." Retai ing at 3/6 per 8 oz. tin, VIRDOX is profitable line for all Chemists.

Write today for full details of generous Trade Terms.

Home and Oversees Agents required.



VIRDOX, 75, KINGSWAY, LONDON, W.C.

-Little-known Limericks — No. 20 (Reprinted)



A headache has worried Brand's Man Since rationing of foodstuffs began.

His brain is on fire
With a burning desire
To send you as much as he can.

Fair shares for all—that is the policy of Brand & Co. when supplies are short. That is why the Brand salesman, although he cannot meet your full requirements, will offer you a fair percentage of the available supplies. All Brand's products are distributed on a strict quota basis.

Brand & Co. Ltd.

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Эони киох - тони киох - тони киох -

There's no "close season" for Colds! You can always sell

# John Knox Rapid Cold Cure

for colds, headaches, feverish conditions, etc.

Retail: 1/8 per bottle (inc. Tax) Trade: i 0/- per doz., p'us 331 Tax 3 doz. 9/6. 12 doz. 9/-.

OX (STOKE-ON-TRENT)

Jaynox Works, King Street, Fenton, Stoke-on-Trent.

P.A.T.A.

John Knox (Midland) Ltd., 26/38, Dean St., Birmingham, 5,

OHN KNOX - JOHN KNOX - JOHN KNOX

When ordering

-keep the STANNING PRICE LIST handy!

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PROPRIETARIES LIMITED

32, ST. JAMES'S STREET, LONDON, S.W.1. 'Phone : ABBey 3629. 'Grams : "Stanlast, Piccy, London'

THE RELIABLE

LEVER BRAILSFORD & CO. LTD.

Manufacturing Chemists.

Specialities: MENTICULE LOZENGES in bulk or 10d. Packets. COLTSFOOT ROCK, in bulk. Menthol and Liquorice Pellets. Liquorice in all Varieties. Sweetening Tablets. Compressed Tablets. Home and Export. IRWELL VALE WORKS, KADCLIFFE, MANCHESTER. TEL: RADcliffe 2579.

#### FINEST ITALIAN LIQUORICE JUICE STICKS

in I oz. size sticks in boxes containing

2 lbs. at 10/6 per box Carr. paid C.W.O.) (Minimum 2 boxes. ORDER IMMEDIATELY

LIMITED STOCKS WHOLESALE ENQUIRIES INVITED

The Faylene Manufacturing Company 15 Queens Court, Lower Briggate, Leeds I Telephone 22594

#### A Point Free Food Addition

**SUPPLIES** AVAILABLE

SPICER'S

## MALT **TABLETS**

in 6d. glass vials

Charged to Chemists at 51/- per gross nett in cartons containing 3-gross vials. From Wholesalers.

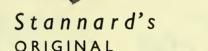
Enquiries to:

#### AFFINED BASIC CHEMICALS LTD

EMPIRE WORKS, DESBOROUGH ROAD, HIGH WYCOMBE, BUCKS.

No. 2





## KOFFS

#### BRONCHIAL TABLETS

have well merited their formidable lead in this competitive field. Millions sold each year.

Standard Pack: Retail 1/4½; Trade 12/- per doz. 'Handy-Pak' Tubes: Retail 9d.; Trade 6/8 per doz. Prices include P.T. Minimum carriage-paid order 35/-.

Attractive 3-colour display outers. 6-colour showcards.

Other Winter lines: Bronchettes for children's coughs; 72d.; Mintettes for children's 'throats' 73d.; Throat Mints, 9d.

#### A. E. STANNARD LTD., TADWORTH, SURREY

ROSELIP The perfect medicated

lip balm. Available for export. Samples and

terms on request.



Makers of High-Class Pharmaceutical Products

Growing Catalogue of Winners

# 14,000,000 people every month are being told

that the most expensive rubber-cushioned hairbrush in the HYGEX range costs no

more than . . . and that every brush is stamped

This HYGEX campaign in the national newspapers, women's weekly journals and the popular weeklies, advertises HYGEX Rubber-Cushioned brushes at 17/6d. (Nylon), 12/6d. (bristle). Shaving brushes from 5/-d. to 5 gns.

★ Distributed through wholesale channels only.

TEI

CLE. 1368

BLADES

HENDERSON BROS. & CO. LTD. BURWELL ROAD, LONDON, E.10. Telephone: Leytonstone 5202/3



\* YOU ARE SUPPORTED BY EXTENSIVE \*

shades

Send for Shade Card and details of Trade terms.

I. DUNHILL MANUFACTURING CO. WOODSTOCK STREET, LONDON, W.I TELEPHONE : MAYFAIR 1603

#### DON BRYAN LTD.

Supplying HEMISTS ONLY

#### Brushes

Samples sent upon request. Retailers can obtain their supplies of "HYGEX" personal brushes from:

SAMUEL GORB & CO., 140 Central St., London, E.C.I

#### EVERSHARP

RAZOR

EVER-READY RAZORS

Price

Wholesale 8/- Gross Post Free

DEPT. J L. FRANKENBERG Ltd. HOUNDSDITCH, LONDON,

WHOLESALERS APPLY FOR TERMS

SPEEDWAY



"More display means more sales, means more bonus—and so the wheel turns "—that was one chemist's way of describing

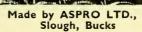
now the benefits start mounting up when you display 'ASPRO'. Displaying 'ASPRO', in fact, ACCELERATES business—CREATES CUSTOM for other lines, too, and so speeds-up turnover and ncreases profits. Give 'ASPRO' prominent display and you mmediately get the full results of THE MOST ENTERPRISING AND ACTIVE ADVERTISING CAMPAIGN GOING ON IN THE COUNTRY. While well-tried methods of 'ASPRO' publicity

are being sustained and expanded, every new method which proves of value is used to the

full. The result is that

# is selling to a speat post was purity

Hundreds of thousands of speedway and football supporters are hearing the weekly 'ASPRO' programme; millions of cinemagoers are seeing the 'ASPRO' film. Putting in the window a prominent reminder that YOU stock 'ASPRO' is the fastest way of making new and permanent customers.





# SEROCALCIN..

# FOR THE PREVENTION AND TREATMENT OF COLDS

The extensive advertising campaign in all sections of the press and the personal recommendation of regular users have created a constantly increasing demand for Serocalcin. Ample supplies are available now and chemists are urged to maintain adequate stocks.

Special Window Displays featuring Serocalcin are being arranged during March, and Chemists are asked to make sure that they have adequate stocks to meet the additional demand that these displays will create.

Pharmacists are reminded that the sole selling agents for Serocalcin in the United Kingdom are J. C., Eno Ltd., Watford, Herts. (Watford 7761) to whom all orders and enquiries a hould be sent



Serocalcin is packed in 20s and 60s.

HARWOODS LABORATORIES LTD., WATFORD, HERTS.

# CHEMIST AND DRUGGIST

is Supplement is inrted in every copy of e Chemist & Druggist

FEBRUARY 28 1948

evailing restrictions and heavy demand on space necessitate the holding over of a number of vertisements week by week. It is therefore advisable to send instructions as early as possible. All vertisements in this section must be prepaid. Box office numbers 2/- extra.

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lation-wide Advertising each week n 500 papers producing the maxi-num number of Buying Clients.

A SERVICE WITHOUT AN EQUAL Tact, Freshness, Vigour and High Ethical Standard

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hone (3 lines) MANsion House 1207, 2748, 2749

cancies advertised are restricted to persons or ployments excepted from the provisions of the trol of Engagements Order, 1947.

#### SITUATIONS OPEN

or 36 words or less, 3d. for every additional word

#### RETAIL (HOME)

STANT required, qualified or unqualified, male male. No N.H.I. No Sunday or holiday duties. Illent living accommodation can be 'arranged se state usual particulars. Early Bunn, Ltd., nists, 95 High St., Chelmsford, Essex.

STANT for photographic section City chemist. rience developing and printing necessary. Apply 3793

rience developing and printing necessary. App., 3/23.

The CHEMISTS invite applications from fifed assistants, male and female, particularly who have recently completed their course of y, and from fully trained unqualified as istants range applications, stating age, rience, district preferred, etc., to Retail Staff artment, Station St., Nottingham

### STOCKTAKING FOR INCOME-TAX PURPOSES OR SALE VALUATION

**OVER 25 YEARS' EXPERIENCE** AT YOUR SERVICE

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Chemists own stock sheets priced.

#### Results available 7 days after valuation. BARNES & IARRATT

Licensed Appraisers

4 CHARLWOOD ST., LONDON, Phone: VICtoria 5686

BRISTOL. Qualified assistant wanted (either sex). Chiefly for dispensing. Please apply with usual particulars to Strode Cosh & Penfold, Ltd., 69 Easton

ticulars to Survee Cost.

Rd., Bristol, 5.

BRISTOL. Lady or gentleman with good dispensing experience required by W. E. Partridge, M.P.S. Apply by letter with full particulars, to Mr. J. Millener, Superintendent, 431 Gloucester Rd.,

CHEMIST, qualified, required. Good conditions, no Sundays. Apply Staff Manager, Birkenhead & District Co-operative Society, Ltd., 14 Catherine St., Birkenhead.

Birkenhead.

CHEMISTS' ASSISTANTS (ladies) wanted for clerical work in the N.H.I. checking bureau and stockpricing departments. Apply National Pharmaceutical Union, 4-5 Queen Sq., W.C.I.

DARWEN INDUSTRIAL CO-OPERATIVE SOCIETY, LTD. Wanted, qualified pharmacist (male or female) to take charge of Branch shop. (No Sunday or half-day duty). Salary according to Co-operative pharmacy scale. Permanent position; superannuation scheme. Applications, stating age, experience, etc., to the Secretary, School St., Darwen.

GREAT GRIMSBY Co-operative Society, Ltd., invite applications from pharmacists, male or female, for the position of branch manager of pharmacy in Cleethorpes. Pleasant, modern, well-equipped shop with substantial turnover. Opportunity to obtain experience in optics if desired. Permanency, with opportunity for progress to suitable applicant. Applications, giving age, experience, present position, when free, and salary required, to Managing Secretary, 74 Garibaldi St., Grimsby.

LADY ASSISTANT, Hall preferred. Good hours and wages in pleasant district. Apply C. G. Dann, 6 Claybury Broadway, Ilford. Phone Wanstead 1005.

LEAMINGTON SPA. Manager or manageress for branch pharmacy, suit newly qualified. Salary and commission. Hours 9 to 6. Prospects of advance-ment. Hutton & Barrett, Ltd., 42 Parade, Leaming-

LONDON, S.W. Qualified assistant for busy dispensing and general retail business. Apply W. J. Boyes, 61 Balham Hill, S.W.12.

LONDON, N.W.10. Qualified assistant required (either sex), chiefly for dispensing. Congenial post with good salary. Accommodation for single person could be arranged. Apply P. D. Nowell, M.P.S., 25 Park Parade, Harlesden, Elgar 5239.

LONDON. Unqualified assistant, not over 40, required for busy pharmacy with heavy N.H.I. dispensing. Must be well trained. Well paid post to competent man. Permanency. Apply Box 2/892.

ORRIDGE & CO., Employment Agency, 184 Strand, W.C.2, Temple Bar 9212-3. Branches at Southampton and Birmingham. Inquiries invited from all employers seeking staff. Many pharmacists and unqualified assistants available for retail and who'esale. Representatives also requiring situations. Reasonable terms. Write to 184 Strand, W.C.2, for particulars.

PHARMACIST to take charge of branch in south-west London. Progressive. Permanency for suitable man. Living accommodation if required, Apply Box 2/987

QUALIFIED CHEMIST required for branch shop, Wood Green area. Congenial post. Permanency with prospects. Good supporting staff, Write, stating usual particulars, Box 3/25.

QUALIFIED MANAGER required for branch shop, Chingford area. Middle-class trade. No rota or Sunday duties Good supporting staff. Excellent prospects. Usual particulars to Box 3/26.

QUALIFIED lady or gentleman required for South London pharmacy, Good salary, good prospects for the right man. send full particulars. Good salary, good prospects Hours 9 a.m.-6 p.m. Please Box 2/942.

south coast resort. Qualified chemist rquired, lady or gentleman. Good wages. Write Box 2/917. SUSSEX. Qualified assistant required for old-established pharmacy; mainly dispensing. Good salary. Apply L. Cameron & Son, Ltd., 12 and 14 Broad St., Seaford, Sussex.

TIMOTHY WHITES & TAYLORS have a number of IMOTHY WHILES & IAYLORS have a number of vacancies for male or female unqualified assistants with dispensing experience. The appointments are permanent, progressive, with good conditions, including pension scheme. Applications, giving full particulars of previous experience should be addressed to Mr. W. E. Stokes, M.P.S., Timothy Whites & Taylors, 70 Vauxhall Bridge Road, London, S.W.I.

UNIQUE OPPORTUNITY for a qualified assistant in view of succession in good-class business, established 66 years. Marchant, Chemist, Eastbourne.

WEST HARTLEPOOL. Pharmacist required, capable of taking charge of a branch. Suit newly qualified person. Exceptional opportunity for experience in busy good-class store pharmacy. Apply in writing to Hartlepools Co-operative Chemists, Ltd., West Hartlepool.

#### LOCUMS WANTED

QUALIFIED LOCUM, Wirral district. Please w stating vacant dates, to Staff Manager, Birkenl and District Co-operative Society, Ltd., 14 Cathe St., Birkenhead.

#### RETAIL (OVERSEAS)

CEYLON. Chemist, M.P.S., required for large partmental store. 25/30 years' of age. Sir Initial engagement of four years. Passage paid and home. Six months home leave with half and free passages if engagement renewed. General terms and cost-of-living allowance, provident f and other benefits. Write, with full partict of experience, etc., to Box Y.164, Willings, Gray's Inn Rd., W.C.1.

#### WHOLESALE

A COMPANY manufacturing patent vacuum fil machines requires a representative for the Lon area and one for the Midland area. Must be good connections with food and chemical bott Salary and commission on sales. Own car g advantage, Supplementary petrol will be arran Full details af age, experience, present salary date free to commence (in confidence) to

ACTIVE and experienced representative required commission basis (part time) to call on chemi commission basis (part time) to call on chem hairdressers, ironmongers, etc., in the countes Nottingham, Lincoln, Norfolk, Suffolk, Cambrid Huntingdon, Northampton, Bedford, for "Eclips razor blades. Apply in writing with full particul to James Neill & Co. (Sheffield), Ltd., Compo Steel Works, Napier St., Sheffield, Active Representatives required for all parts England and Wales by a well-known firm of a tributors to sall shaping scan to Coops.

England and Wales by a well-known firm of tributors to sell shaving soap to Co-ops. O those with extensive connections and who furnish references at a later date need apply Managing Director. Box 2/952.

ADDITIONAL LINES available for salesmen call on chemists. Established hair preparations in nationally advertised. State territory covered a particulars. Box No. GA 384, 4-7 Salisbury (Plant St. E. C. 4.

nationally advertised. State territory covered a particulars. Box No. GA 384, 4-7 Salisbury (Fleet St., E.C.4.

AGENTS OR TRAVELLERS wanted for quick-sellinationally advertised article shortly being marked direct to the retail. (In London only full-time n considered.) Excellent earnings can be made men prepared to work. In first letter state a present lines carried, exact ground covered, exonology of the state of the assistants on production work. Apply in writing Personnel Manager

AN OLD-ESTABLISHED firm of manufacturing che ists invite applications for the position of rep-sentative to call on veterinary surgeons with specia ties and general drug lines. Must be car own and resident in Northern England or Scotland, whi is the territory to be covered. Applicants possessi the necessary qualifications should send full partic lars regarding past experience, age and salary r quired, to Box 3/7.

appointment to the representative staff of a we known company. Candidates should have the next and ability to conduct propagangin the medical and allied professions; they should be under the age of 35 years, and be resident, prepared to reside, in Scotland, North-east England East Midlands, Sonth-west England or Souther Counties. Previous experience is not exercised as first programment of the second of t Counties. Previous experience is not essential as futraining will be provided. These appointments ha excellent prospects and offer progressive renungretion to selected candidates together with participation in superannuation scheme. Give full details age and experience in first letter to Box 2/984. ROUGHS WELLCOME & CO., have vacancies for elors of Pharmacy or Pharmaceutical Chemists eir development laboratories at Dartford. Preexperience in the formulation of pharmaceutiexperience in the formulation of pharmaceuti-reparations and in the development of manufac-g methods is not essential but would be an ntage. Salaries according to qualifications and rience. Applications to be addressed to the lopment Manager, Wellcome Chemical Works, ford.

CAL pharmaceutical manufacturers, London, re qualified man with several years' first-class rience of pharmaceutical manufacturing prorenee of pharmaceutical manufacturing pro-sto supervise expanding production. Experi-should include liquid preparations, tablets, am-s, etc. Knowledge of stability of vitamins an ntage. The appointee will have the opportu-of close contact with a first-class scientific staff, e is a pension scheme and, to a suitable appli-the salary will be made attractive. Write No. 949, Spottiswoodes, Regent House, Kings-London, W.C.2.

RIENCED REPRESENTATIVE with existing conons required to carry additional well-known nally advertised lines on commission basis. s Lancs and Cheshire; Berkshire, Oxford, hants, Huntingdon, Cambridge; Eastern Coun-Cornwall, Devon, Somerset and Gloucester. e giving age, experience, and exact territory covered. Box 2/971.

**KO LABORATORIES, LIMITED.** A few further intments are shortly to be made to the repretive staff and applications are invited from fied pharmacists between the ages of 25 and The positions offer interest and remunerative. to keenly intelligent and industrious men able il to professional and trade customers; previous ell to professional and trade customers; previous sentative experience is not essential. Apply by only. State full details of education and busicareer as well as giving the usual personal ination including age and height. A photograph ld be enclosed if possible, but no testimonal ld be sent in the first instance. Address applients to the Personnel Mattager, Glaxo Laboras, Ltd., Greenford, Middlesex.

ERIAL CHEMICAL INDUSTRIES, LTD., have a or vacancy in their publicity department for an tant with thorough knowledge of production capable of originating and executing rough layfor all forms of publicity material. Some vledge of the pharmaceutical trade an advan-Applications with full particulars should be essed to Imperial Chemical (Pharmaceuticals), "The Ridge," Beechfield Rd., Alderley Edge, tchester. This post is excepted from the prons of the Control of Engagement Order, 1947.

ERIAL CHEMICAL INDUSTRIES LTD., have a or vacancy for a pharmacist with literature ty and experience in the compilation of literaand experience in the compilation of litera-and the provision of information relating to lical and veterinary pharmaceutical products. lications with full particulars should be addressed mperial Chemical (Pharmaceuticals), Ltd., Staff Establishment Section, "The Ridge," Beech-Rd., Alderley Edge, Manchester. This post is pred from the provisions of the Control of En-ment Order, 1947.

E SALES REPRESENTATIVE required to cover les, Shropsh're and Hereford. Generous commis-Apply with full details to Yeast-Pac Company,

Cromwell Rd., S.W.7.

NAGER required for the chemical and pharmatical department of a London export company, berience necessary. No salary, high profit share. I details to Box 3/22.

NUFACTURERS of high-class pharmaceutical prots require traveller for the counties of Stafforde; Derbyshire; Nottinghamshire and Leicester-Salary, commission and expenses basis. Box

MANUFACTURERS of branded products with worldwide connections require Continental representative age 30-45 for Belgium, Holland, France, Switzer-land, etc. Must speak languages and preferably have

connections. Salary according to experience plus commission and expenses. Details to Box 2/973. MANUFACTURERS of branded products require first-class representative to call on shippers and con-

hrst-class representative to call on shippers and confirming houses in Britain and possibly travel abroad. Age 30-35. Experience essential. Salary and commission yielding approx. £750 p.a., plus expenses. Full details to Box 2/974.

MANUFACTURERS of C.F. preparations require representatives or agents for London, Suffolk, Norfolk, Hunts, Cambs, Notts, Leicestershire, Lincs, Warwickshire, Worcestershire, Yorkshire, Scotland, South Wales. Applicants must have good connection. 20% commission. Applications with full particulars of present territory and lines carried to Box 2/940. Box 2/940.

Box 2/940.

OFFICE MANAGER required to run office and dispatch of small pharmaceutical manufacturers and exporters, North London. Full particulars of past experience, age, salary required, to Box 2/996.

OLD-ESTABLISHED manufacturer of advertised perfumery and cosmetics requires first-class representative to call on chemists and wholesalers in

sentative to call on chemists and wholesalers in West, South-west, South-east London, Kent, Surrey and Sussex. Own car essential. State salary. Confidence respected. Box 2/565.

OLD-ESTABLISHED firm of wholesale druggists and manufacturing chemists invite applications for the

position of representative to call on chemists and doctors with general drug lines. Existing territory vacant due to death will be handed over. Applicants resident in the London area and possessing the necessary qualifications should write in the first the necessary qualifications should write in the first instance, giving particulars regarding past experience, age and salary required, to Managing D. rector, Willows, Francis, Butler & Thompson, Ltd., 89a Shacklewell Lane, London, E.8.

OLD-ESTABLISHED manufacturing house requires two representatives, one for the North of England and one for the Midlands, with connections wholesale chemists, smallware dealers. Salary and commission yielding approx. £750 p.a., plus expenses. Full details to Box 2/972.

OLD-ESTABLISHED chemists' syndowsman approximately.

OLD-ESTABLISHED chemists' sundriesmen require full-time representative for West, North-West Loudon. Must be experienced. Preference given to one with own connections, knowing area. Existing remunerative connection will be handed over. Car provided. Full support guaranteed. Salary and/or commission. Staff pension scheme. Full details, references, etc., to James Hardcastle & Co., 20 High Holborn, W.C.1.

High Holborn, W.C.I.

REPRESENTATIVES or sole agents required by manufacturers of superbly presented proprietaries in popular demand. 1. London Postal District and Middlesex. 2. Staffs, Derby, Notts, Warwicks, Leicester. 3. West Country. 4. Kent, Surrey, Sussex, Hants. 5 South Wales and Border Counties. 6. Eastern Counties. 7. Northants, Oxford, Bucks, Beds, Herts. 8. Northern Ireland. (Full-time men only considered for London and Midland Counties.) Territories being re-organised for vigorous development by energetic salesmen. Fullest ous development by energetic salesmen. Fullest support and generous remuneration given. Existing accounts transferred. Only men of outstanding character, integrity and long experience with established connection need apply. Complete information in strictest confidence necessary wirer to tion, in strictest confidence, necessary prior to interview, i.e., age, if car owner, exact territory covered, frequency of calls, experience, method of remuneration preferrd (lines carried if agency). Box 3/24.

REPRESENTATIVE required for London Southern Counties to call on chemists, hairdressers, stores, etc., in brushes, sundries and fancy goods. Experience and connections advantageous; car essential. Salary and commission. Apply Box 2/997.

#### SALES DIRECTOR

VACANCY occurs in a Leading A London firm of Manufacturing Chemists. Applicant must possess Pharmaceutical qualifications and have held a similar appointment. This is a permanent post with excellent prospects. Salary commensurate with qualifications and experience. Reply in confidence giving full details, including age, to Box 3/20.

REPRESENTATIVE. A good opening occurs for a full-time representative to call upon retail and wholesale chemists. Permanent position and good prospects with a well-known London firm of manuprospects with a well-known London firm of manufacturing chemists. Remuneration by salary and commission plus expenses. Applicants should have first-class connections and reside on the following territory: Midlands and South Wales. Car owner preferred. Full details, stating age, experience, etc., to Box 3/31.

REPRESENTATIVES required to handle additional lines in all parts U.K. Write, giving fullest particulars, to Box 2/966.

REPRESENTATIVES (2) required for London and Home Counties, must have established connection with chemists, retail and wholesale. Full particulars and terms to Box 2/978.

REPRESENTATIVE wanted, accustomed to calling on chemists in South Wales and Gloucester. Give full particulars, including details of experience, age, whether car available, married or single, etc. Also state salary required. Jeffreys, Miller & Co., Ltd., Leyland Mills, Wigan.

REPRESENTATIVES required by wholesale distributors handling nationally known range of perfumes and cosmetics for the following territories: Scotland, Wales, South-western, South, South-eastern, Home and North-west Counties. Liberal commission and existing accounts handed over. Must have good connection with chemists, stores and Co-ops. Box 2/857.

REPRESENTATIVE required for nationally advertised cosmetic manufacturers. South Coast area. Reply,

giving full details, to Box 2/964.

REPRESENTATIVES by. required manufacturing chemists for high-class quick-selling lines. Must be well introduced to chemists. Generous commission. State territory covered. Write in confidence to Box 2/876.

REPRESENTATIVES OR AGENTS required for all areas with connections with retail and wholesale chemists to take up additional line. Good commission. Box 2/967.

SALES AGENTS wanted for polishes, cleansers, bleach, laundry aids, etc. Box 2/897.

SALES REPRESENTATIVES calling on chemists, hair-dressers, stores, etc., in all areas of the British Isles, required by well-established manufacturers and distributors of first-class toilet preparations and cosmetics. Apply, giving full particulars and experience. Box 2/896.

SHAVING STICKS, shaving cream, toilets. Oldestablished company require experienced live representatives in all parts of the United Kingdom-Preference given to those with existing connections with chemists and grocers. Remunerative opportunities for good men. Write Box 108, c/o George Murray (Advertising), Ltd., 184 Strand, London, W.C.2. SPECIALITY SALESMEN required by electro-me manufacturers, all areas. Car essential. Con sion only. Defined territories. Box 3/32.

STAFFORD ALLEN & SONS, LTD., require an a ant analyst of B.Sc., A R.I.C., or equivalent dard. Previous experience of the analysts of and galenicals, including alkaloidal assays nece Knowledge of essential oil analysis an advantage of the state of the s Salary according to qualifications and experi Apply by letter, to Department D/WM, W Road, London, N.1.

WANTED. Representative to call on chemists' w salers, stores, etc., preferably one with experi Wage and commission, Harman Dietetic Lal tories, Ltd., Cavendish Works, North Pa Burnt Oak Broadway, Middlesex, Tel. Edg 8286.

WANTED by manufacturing chemists, young r macist, preferably with some knowledge of tr manufacture. This is desirable, but not esser Box 3/19.

WANTED, active distributors and agents for a r ber of sound lines with large sales possibilities. On results. commission and yearly bonus on results. giving details of territory covered, other lines can etc., to Box 2/932.

etc., to Box 2/932.
WE OFFER two repeat sellers to travellers calling chemists and drug stores. Own car prefers Box 3/1. Excellent commission terms.

WELL-INTRODUCED REPRESENTATIVE wanted South of Thames area by London and district tributors of "Primosette" and "Primrose "s tary towels and "Esco" rubber products. C mission basis only. No objection to other non-c petitive lines. Apply by letter to Managing Di tor, Primosette Co., Ltd., 99 Kingsland High London E. 8 London, E.8.

WELL-KNOWN and old-established fine soapma and perfumers have early vacancy for experier full-time sales representative. Territory South Eastern and part Midland counties. Salary and expenses. Apply with full details of experier age, etc., to Box 2/906.

WILLIAM RANSOM & SON, LTD., Hitchin, He require a foreman for their laboratory. Must fully experienced in the manufacture of galenic Reply by letter in the first instance stating previ experience, age and wages required.

YOUNG qualified chemist, lady or gentleman, supervisory work in laboratory and production, quired by manufacturers of pharmaceutical artic toilet preparations, cosmetics, soaps. Previous perience in production not essential. State a experience and salary required. Droyt Produc Ltd., Progress Mill, Chorley, Lancs.

#### CLERICAL

OFFICE JUNIOR wanted for the Head Office of t journal; good opportunity for alert youth or gleaving school; hours 9.30 to 5, no Saturda Written applications to Staff Director, Morg Bros. (Publishers), Ltd., 28 Essex St., Londo W.C.2.

#### WHOLESALE (OVERSEAS)

PLANT CHEMISTS urgently required for proceed plant operation by large company operating in the Middle East. Applicants need not be graduates be should have had a chemical training up to Interest of the Inte furnished bachelor accommodation, passages out as home, medical attention, also kit allowance at provident fund benefits. Apply, stating age, qua-fications and experience, etc., to Dept. F.22, Be 1020, at 191 Gresham House, E.C.2. ITH AFRICA. Required, experienced pill and et assistant for manufacturing laboratory. Appli-must have initiative and able to assume con-if necessary. Good salary and passage paid, ly in writing, giving fullest particulars, to Box

#### SITUATIONS WANTED

for 18 words or less, 1d. for every additional word

RETAIL (HOME)

THECARIES' HALL DISPENSER, 26, seeks post Burnley, Lancashire area. Cooper, 4 Fairbairn Burnley,

#### WHOLESALE

ALYST, B.Sc., with long experience in assaying crude drugs and analysis of fine chemicals and rmaceutical products seeks senior position with onsibility. Box 2/944.

MIST. Expert in formulating and manufacturhigh-class cosmetics and perfumeries and com-nding soap substitutes, detergents, etc., seeks tion or consulting appointment. Box 3/12.

ERIENCED REPRESENTATIVE with good conion in the south-eastern counties requires posi-with firm of repute. Box 3/18.

ST-CLASS REPRESENTATIVE calling chemists, artmental stores, some wholesalers, excellent nection London and Middlesex, desires change firm of repute. Salary, commission, expenses.

ALIFIED CHEMIST seeks representation, N. Ire-l, for reputable Cross-Channel house. Only -established firms with branded goods enter-ed. Box 2/957.

RESENTATIVE, calling chemists, hairdressers, Co, Durham, N. and E. Yorks, live connection, its change; well-known lines. Salary, commission expense basis. Would consider commission, exsess only. Full details Box 2/945.

ES MANAGER desires change of appointment, adon area. Well-known to all buyers in the le. First-class connection and excellent refer-Box 2/991.

cKTAKING, quiet and efficient workmanship, 30 years' practical experience. Personal super-on. C. W. Playfoot, 8 Aylward Rd., Merton k, S.W.20. Tel. Liberty 4104.

RKSHIRE: Representative, leading proprietary se, desires change. 18 years present position. All mists and allied trades. Sole agency reputable se considered. Highest references. Car owner. ident Leeds. Box 2/968.

#### **APPOINTMENTS**

#### KENT COUNTY COUNCIL

ASSISTANT PHARMACIST Applications are invited for the following ap-pointment at the COUNTY HOSPITAL, 'ARNBOROUGH, Nr. BROMLEY. ASSISTANT PHARMACIST (M.P.S. or

Ph.C.) either sex. Hospital experience pre-erred. Salary £370 a year by four increments of £15 and one of £20 to £450 a year. Super-nnuation. Medical examination necessary.

Applications, stating age, qualifications, experience and the names and addresses of two esponsible persons to whom reference may be nade as to professional ability, to be sent to be County Medical Officer, County Hall, Maidtone, as soon as possible.

W. L. PLATTS,

Clerk of the County Council:

County Hall, Maidstone. 11th February, 1948,

#### CORPORATION OF MANCHESTER

HEALTH DEPARTMENT.

ASSISTANT PHARMACISTS (two) at Booth Hall Hospital.

Half Hospital.

"Applications are invited for two vacancies for Assistant Pharmacist at Booth Hall Hospital for Sick Children (650 beds), Blackley, Manchester, 9.

Candidates should possess a qualification granted or recognised by the Pharmaceutical Society of Great Britain. One candidate is required to commence duty as soon as possible and the other by April 1st, 1948.

Salary in accordance with the Joint News

Salary in accordance with the Joint Negotiating Committee's Scales, i.e., £370 per annum, rising to a maximum of £450 per annum, and subject to the Joint Negotiating Committee's conditions of service and to one month's notice on either side. Corporation Superannuation Scheme. Manchester

Full particulars may be obtained from the Medical Superintendent at Booth Hall Hospital, and all applications, stating age, qualifications and experience, are to be addressed to him as soon as possible.

on as possible, Canvassing in any form is prohibited. PHILIP B. DINGLE, Town Clerk,

Town Hall, Manchester, 2. February 20th, 1948.

#### **ESSEX COUNTY COUNCIL**

Applications are invited for the appointment of (a) a non-resident DEPUTY CHIEF PHARMACIST (male) and (b) a non-resident ASSISTANT PHARMACIST (male) at the Oldchurch County Hospital, Romford. This modern hospital, of 828 beds, with specialist departments, is well served by rail and road transport services.

transport services. The inclusive salaries will be in accordance with the recommendations of the Joint Negotiating Committee (hospital staffs)—(a) £425/£20/£525 a year plus one additional increment of £15, if specially recommended, to £540 a year, (b) £370 by £15 a year plus a final increment of £20, to a maximum of £450 a year. £450 a year.

The appointments will be subject to the Council's Standing Orders, extracts from which will be forwarded on application and the selected candidates will be required to pass a medical examination and contribute to the Council's superannuation fund.

Applications, stating age, experience, qualifications and details of previous appointments, with the names and addresses of three persons to whom reference may be made, should be addressed to the undersigned as soon as possible. Canvassing, directly or indirectly, will be a

disqualification.

ounty Hall, JOHN E. LIGHTBURN, Chelmsford, Clerk of the County Council. Essex. February 4, 1948. County Hall,

#### MANCHESTER CORPORATION

HEALTH DEPARTMENT Booth Hall Hospital for Sick Children (650 beds).

LOCUM TENENS ASSISTANT PHARMA-

CIST (male or female) required.
Salary at the rate of £400 per annum for full-time or 5s. 6d. per hour for part-time.

Applications, stating age, qualifications and experience, to be addressed to the Medical Superintendent, Booth Hall Hospital, Blackley, Manchester, 9, as soon as possible.

MIDDLESEX COUNTY COUNCIL

MIDDLESEX COUNTY COUNCIL
REGISTERED ASSISTANT PHARMACIST
for NORTH MIDDLESEX COUNTY HOSPITAL, Edmonton, N.18. J.N.C. (Hospital
Staffs) Scale. £370 to £450 inc. Similar experience may determine commencing salary.
Whole time, established, pensionable, subject
to medical examination. Applications, stating
ware numblifications, expressioned with cooles. age, qualifications, experience, with copies of up to three recent testimonials, to MEDICAL DIRECTOR of Hospital immediately (quoting D.591). No forms.

C. W. RADCLIFFE, Clerk of the County Council.

LONDON IEWISH HOSPITAL.

STEPNEY GREEN, E.1.

A QUALIFIED ASSISTANT PHARMA-CIST, female, required. Salary in accordance with J.N.C. Scale. Applications, with full par-ticulars, to be sent to the Pharmacist.

#### KENT COUNTY COUNCIL

ASSISTANT PHARMACIST
Applications are invited for the following appointment at the County Pharmacy, County Hall, Maidstone.

ASSISTANT PHARMACIST (M.P.S. or Ph.C.) (male). Hospital experience preferred. Salary £370 a year, rising by four increments of £15 and one of £20 to £450 a year. Superannuation. Medical examination necessary.

Applications, stating age, qualifications, experience and the names and addres es of two responsible persons to whom reference may be

responsible persons to whom reference may be made as to professional ability, to be sent to the County Medical Officer, County Hall, Maidstone, as soon as possible.

W. L. PLATTS.

Clerk of the County Council.

County Hall, Maidstone. 13th February, 1948.

MIDDLESEX COUNTY COUNCIL
ASSISTANT PHARMACIST required at
WEST MIDDLESEX COUNTY HOSPITAL,
Isleworth, Middlesex. J.N.C. (Hosp. Staffs)
scale £370 p.a. to £450 inclusive. Similar experience may determine commencing salary.
Must hold one of Pharmaceutical Society's qualifications. Whole-time duties under Medical
Director and Chief Pharmacist. Established,
subject to medical examination. Applications,
stating age qualifications experience, enclosing stating age, qualifications, experience, enclosing copies of up to three recent testimonials, to MEDICAL DIRECTOR of Hospital (quoting D.570 CD).

#### QUEEN MARY'S HOSPITAL FOR THE EAST END, STRATFORD, LONDON,

E.15 ASSISTANT PHARMACIST

Applications are invited from registered Pharnacists for this appointment. Salary scale, £370 per annum with annual increases of £15 up to £450 per annum. Commencing salary within Scale according to qualifications and exwithin Scale according to qualifications and experience. Federated Superannuation Scheme in force. Applications, giving full particulars of age, qualifications and experience and copies of recent testimonials, should be sent as soon as possible to the undersigned.

M. J. HUNTLEY. House Governor and Secretary.

#### NOTTINGHAM GENERAL HOSPITAL

ASSISTANT PHARMACIST (woman) quired. Commencing salary £370 per annual as J.N.C. scale. Federated superannuation scheme in force. Applications with copies of three testimonials to be sent to the House Governor and Secretary.

#### SOUTHEND-ON-SEA COUNTY BOROUGH COUNCIL SOUTHEND MUNICIPAL HOSPITAL, ROCHFORD, ESSEX.

Locum Pharmacist required for six weeks holiday relief after 1st April. Dates to be arranged with successful applicant. Apply in writing to Medical Superintendent, Southend Municipal Hospital, Rochford, Essex, stating date or dates available. Salary £8 10s. per week, non-residential. All possible assistance will be given in finding suitable accommodation in the district, without obligation to the Hospital.

ARCHIBALD GLEN. Town Clerk.

Municipal Buildings, Southend-on-Sea, 21st February, 1948.

#### **AGENCIES**

17/6 for 36 words or less, 4d. for every additional wor

AGENTS REQUIRED for sale to wholesale of packet liquorice and menthol pellets and similar no poir repeating lines. Territories available: London Southern Counties, South-West, South Wales an

Southern Counties, South-West, South Wales an Scotland. Box 2/895.

BUYING AGENTS are offered a first-class repealine for chemists and druggists. Box 3/2.

DUNCAN PARKER & CO., 350 North Circular Rd Dublin. Wholesalers and importers with long-estab

lished connection throughout the country are ope-to accept further agencies on behalf of manufac turing chemists

OLD-ESTABLISHED chemists' sundriesmen requir agents for the following areas. 1. Midlands 2. South Coast, to take over existing connections Must be experienced. Car an advantage but no necessary. If representation proves satisfactory a car will be provided. Commission basis. Full support guaranteed. Apply to Mr. Livesey, Jame Hardcastle & Co., 20 High Holborn, W.C.1. Hol

SALES AGENTS specialised in pharmaceutical sur plus stores required. Apply Box 2/992.

#### AGENCIES WANTED

8 6 for 36 words or less, 3d. for every additional word

WELL-ESTABLISHED representative covering Lancs, Cheshire, Derbyshire and N. Wales, seeks additional lines, 1,000 accounts, chemists, stores, hairdressers. pharmaceutical, sundry or toilet. Bankers reference given. Box 2/941.

#### TRADE MARKS

THE FOLLOWING TRADE MARKS were assigned on the 26th November, 1947, by Lever Brothers, Port Sunlight, Ltd., of Port Sunlight, Cheshire, to Evans Chemicals, Ltd., of Elstree Way, Boreham Wood, Hertfordshire, without the goodwill of the business in which they were then in use. No. 432372. Mark: Dog and Child device together with words "On the Chemicals whethers would for guard." Goods: Chemical substances used for agricultural, veterinary and sanitary purposes. No. 432373. Mark: Dog and Child device together with words "On guard." Goods: Common soap, detergents, illuminating or lubricating oils; and starch, blue, and other preparations for laundry purposes.

#### **BUSINESS OPPORTUNITIES**

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HANGE—SACCHARIN tablets for packed or paraffin liq. B.P.; packed glycerine; Kodak/films. Proprietor of an established private macy would exchange standard (British made) harin tablets in packets of 100 or bulk (tins ain 250,000 tabs.), at controlled wholesale price equivalent value stocks of the above. Small or e quantities. Bank references given and re-ed. Write in strict confidence to Box 2/951.

NUFACTURING CHEMISTS have facilities and e available for the manufacture and bottling of estic, industrial or toilet products. wal, Ltd., 30 Loughborough St., S.E.11. Frank

NUFACTURING CHEMISTS have facilities for the ufacture of tablets, liquids, ointments, creams, uiries to Box 3/28

NUFACTURING CHEMISTS have facilities and et sin large or small quantities. Enquiries to 3/21.

NUFACTURERS required able NUFACTURERS required able to turn out active lines suitable for chemists. Advertisers a well-known sales and distributing house, with a accounts and a really live sales force capable handling more merchandise, able to cover all lesalers and retailers throughout the country. I consider advertising of suitable merchandise r distribution obtained. Full details. Box 01.

ptographic CHEMISTS. In spite of shortages quotas, retain in the goodwill of your photophic clientele by selling "Good Photography," magazine for photo enthusiasts. Its attractive sentation and informative contents ensure a ready Published quarterly at 2s. For trade terms Publisher, "Good Photography," 123/5

e Publisher, "Good Photogreen Victoria St., London, E.C.4.

-PACKING. Firm with machinery available preed to pre-pack on customers' own behalf, any of dry powders, crystals or flakes, in tins, cars, or bags. Assistance can be given with certain king materials. Box 2/888.

OGRESSIVE business firm in Dublin with estab-ed connections throughout the country, and m for expansion, can undertake manufacturing /or packing of goods of interest to grocers, mists, smallware, hardware and allied trades. k 2/970.

DMPT delivery from stocks of all types of bottles jars to suit the chemist and cosmetic trades, ir enquiries invited which will receive our prompt ration. Temple Glass Co., Ltd., 16 Temple ambers, London, E.C.4. Tel. Central 6132.

BLETS. A well-known food manufacturing comby have available tableting capacity. Large quanes can be handled quickly and efficiently under fienic conditions. Complete packaging can be anged if required. Inquiries to Box W.425, Hadas', Salisbury Sq., London, E.C.4.

#### BUSINESSES FOR DISPOSAL

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EMIST'S BUSINESS for sale in Newcastle-onne. Old-established. N.H.I. Kodak, Wines and cits, Takings nearly £2,500 yearly. Freehold proty. Corner site, large shop, two windows oms: Two back, scullery, and separate yard, etc. at above shop occupied. Price, including property, 1000. Box 2/994.

tug store, suburban London, Essex border. Dminent main road position: Takings £10,000 urly. Goodwill and fittings, £2,500, stock at uation. Box 3/27.

DRUG STORE for disposal. Situated in a busy thoroughfare in S.W. London. Lock-up shop. Last year's audited takings £4,400. Low overheads and good existing quotas. Goodwill, fixtures, fittings and clean stock at £2,750, all in. Write Box 3/16. GLASGOW. Cosmetics manufacturing. B.O.T. licence. Turnover £2,100 p.a, No premises. Portable plant. Goodwill, equipment, stock (app. £675), £1,600. National Business Agency, Ltd., 36 East-cheap, London, E.C.3. Mansion House 2748, LONDON. Two groups of chemists retail businesses.

LONDON. Two groups of chemists retail businesses for disposal together or separately. Substantial profits. Separate cash requirements, £42,000 and £55,000 respectively. Freeholds involved. Banker's reference with application, to Orridge & Co., 184 Strand, W.C.2.

#### **MISCELLANEOUS SALES**

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A QUANTITY of surplus cartons holding 1 dozen and 3 dozen medical flat 6-oz. bottles are for disposal. New condition. For particulars write to Box 140, c/o George Murray (Advertising), Ltd., 184 Strand, London, W.C.2.

ALUMINIUM cold wave curlers in quantity for sale. Also quantity rubber bands and spacers. Box 2/980. APPROXIMATELY 35 gross new 16 oz. ribbed oval bottles with screw caps for immediate disposal. Apply Neo-Chemicals, Ltd., 104 Fonthill Rd., London, N.4.

AVAILABLE in Dublin, 2,710 dozen ½-oz. glass bottles complete with bakelite caps and brush; also 600 dozen with caps only. These are surplus stock, not exportable, and must be disposed of in Eire. Sample and price on application. Box 2/962.

CELLOPHANE, plain coloured, about 400 lb., sizes from 36 in. to 40 in. by 40 in. to 44 in. 3s. 6d. per lb. Box 2/977.

CHEMIST'S FIXTURE, 8 ft. x 6 ft., also other fittings. 63 Gillott Rd., Edgbaston, Birmingham.

FOR SALE, 100 gross new one pound plain lever lid tins, 3" x 3½", 48/6 per gross ex warehouse, Maidstone. Cartons free. Enquiries to Box 3/29.

FOR SALE. 200 gross 10 fluid oz, rectangular tins with screw caps. Box 3/6. FOR SALE. 2 tons Mag. Sulph. exsic. B.P. 2 tons Soda Sulph. exsic. Offers to Box 3/9.

FOR SALE. Ormeroyd Q.P. emulsifier, type D2/C. Very little used. Self drive ¼ h.p. motor. Also 6 Eureka type single punch tablet machines, recently reconditioned. Box 2/975.

**FOR SALE.** Flat bottom glass tubes, approx. 40,000, 1 in. x  $4\frac{7}{8}$  in. Half quantity with corks. Offers please. Other small lots and ampoules. Box 3/10.

FOR SALE, SURPLUS, 1-lb. jars with metal screw-top or clip-on metal lids, size  $4\frac{7}{4}$  in, x  $2\frac{7}{4}$  in, also plain slip-lid tins (lacquered inside), size  $2\frac{3}{4}$  in, x  $3\frac{1}{6}$  in. Write Box 2/999.

FOR SALE. 2 tons soda bicarbonate, 1 cwt. calcium gluconate, also phenol phalein. Box 2/860.

FOR SALE, to clear. Diglycol stearate, 525 lb. First reasonable offer accepted. Apply Scrubb & Co., Ltd., Wimbledon Factory Estate, Morden Rd., Ltd., S.W.10

**GLYCERINE AVAILABLE,** 6 x 56-lb. druins, offers considered. Box 2/976.

GOVERNMENT SURPLUS. Round gilt tins, 2 in. dia. x ¾ in. deep. Screw lid. 20s. per thousand. 1 in. square tins, ¾ in. deep. Slip on lid. 10s. per thousand. Porter & Partner, Ltd., Clumber Buildings, Clumber St., Nottingham.

LARGE SURPLUS STOCKS consisting of miscellaneous items of pharmaceutical branch to be sold. Will agents and anybody interested please apply Box 2/993.

MEDICATED pine bath essence for sale at attractive prices to clear stocks. Inquiries to Box 137, c/o George Murray. (Advertising), Ltd., 184 Strand, London, W.C.2.

NOW AYAILABLE, immediate delivery, restricted supplies Pool White 30 Mineral Oil, in approximately 40-45-gallon drums, price 5s. per gallon, ex works, London. Apply Box 3/4.

OIL OF LEMON (Sicilian); quantity available, surplus to requirements, in sealed drums. Controlled price or offer, part or complete lot. Box 2/989.

ONE No. 3 PIPING MACHINE complete with water jacket; 377 lb, finest snow white spermaceti; 4 x 45 gallon drums white technical oil; 12 gross each 50 cc, and 100 cc. "Cloche" bottles with green ball bakelite caps; 50 gross 2 oz, amber jars, green enamelled metal caps, Willsons (Doncaster), Ltd., High Rd., Balby, Doncaster.

OWING TO THE LACK of space we are clearing our chemist sundries department of all lines. Special offers of proprietary lines, soothers, combs, etc. Please write, phone, or call, Messrs. Turnmill Warehouse, Ltd., 67 Mile End Rd., E.1. Telephone No. Stepney Green 2454-5.

SMALL SURPLUS quantities of aspirin, phenacetin, lactose and stearic acid. Offers invited. Box 2/998.

**SULPHONATED** lauryl alcohol powder. Any quantity supplied at 4s. per lb. Washing powder 7 per cent, active content—good lather, regular supplies. Sulphonated fatty alcohol powders, several grades, bleaching liquor. Samples on application, Box 2/995.

200 gross 2½-oz. S/C Tobins SURPLUS STOCK. (new) with white nietal caps in non-returnable cartons, 10 cwt. Glycerine B.P. Best offer accepted. tons, 10 Box 3/17.

**SURPLUS STOCK.** 2 kilos, original tins, Papaverine Hydrochloride. Prompt delivery. Box 2/969.

SURPLUS STOCK of 5 per cent. D.D.T. powder in bulk for disposal. Fair offer accepted. Box 136, c/o George Murray (Advertising), Ltd., 184 Strand, London, W.C.2.

TURPENTINE substitute, approximately 2-cwt., surplus to requirements, What offers? Box 2/986. WE CAN SUPPLY absorbent wool of Dutch manu-

recard sorrel absorbent wool of Dutch manufacture, packed in one pound rolls. Available in one cwt lots only, at 2s, 7½d, per lb. for hospital and 3s. 2½d, per lb. for best. Both prices subject to plus 10% duty charges. Edwards Surgical Supplies, 66 Mortimer St., London, W.1.

WE OFFER: Magnesium chloride for home trade and export. Potassium chlorate for export only. Box 2/853.

20 GROSS all rubber soothers, carded, 48s. per gross. Boxed separately, cellophane windows, 54s. per gross (home market). Box 2/982.

22 GROSS best quality all-purpose cream, 12s. per doz., plus tax (home market). Box 2/981.

80 GROSS 1-oz, white flint upright jars with metal caps, 17s. per gross to clear; 84 gross 2-oz, white flint toilet bottles with metal caps, 30s. per gross. Ditto, bakelite caps, 32s. per gross. 58 gross yellow petroleum jelly in 2-oz, attractive tins, 18s. per gross. 30 gross white petroleum jelly in 2-oz, attractive tins, 22s. per gross. 85 gross yellow cardboard sprinkler drums, complete with perforated and sealed metal caps. Size 2 in, x 3½ in., 18s, 6d. per gross. Box 2/985.

#### FOR SALE

8/6 for 36 words or less, 3d. for every additional w

COPPER SULPHATE, 5d. lb. Koray, 1s. 9d. 3s, 6d. doz. Harrogate health salt, 12s. doz. Silkiskin, 3s. doz. 1s. 9d. D.D.T., 10s. 6d. doz. Bikiskin, 3s. doz. 1s. 9d. D.D.T., 10s. 6d. doz. Bwave shampoo, 2s. 6d. doz. Betalax, 1s. 3d. and doz. \$-0z. 6 flower oil, 1s. 3d. each. J. Chris Ltd., 20 High St., Downham Market, Norfolk. FOR SALE. 50 gross 2-oz. panel bottles, comp with screw caps packed in original one gross out 27/- per gross ex store. Grattan's Pharmaceut Products, Lurgan, Northern Ireland.

#### **EXPORT TRADE**

**EXPORT TRADE.** Sweetening tablets, available export only. Write Box 3/8. FOR EXPORT ONLY, 10 gross 11 m.m. lipsticks refill cartons and labelled at 5s. per dozen.

SACCHARIN TABLETS available for export on Write Box 2/911.

#### WANTED

1/6 for 36 words or less, 3d. for every additional we B.P. PEPPERMINT OIL urgently required, Reply

BOTTLES. **BOTTLES.** 26-oz. and 13-oz; wine or champag bottles required. Box 1/853.

CASH REGISTER required, Holt, 72 Nugget S Oldham.

GLYCER!NE, all grades, required in any quantiti

GLYCERINE wanted, any quantities taken of B quality. Cash by return. State quantity availal and price required to Box 157/296. STEARIC ACID, triple pressed, required in lar quantities. Box 147/850.

STEARIC ACID (triple pressed) wanted in large small quantities, B.P. Glycerine available if quired as part payment. Box 2/912.

**STEARIC ACID,** double or triple pressed. Offers Box 3/15.

**WANTED.** Glyceryl-monostearate. Triple press stearic acid. Saccharin 550 powder. Vanillin. Whipetroleum jelly. Large and continuous supplies 1 quired. Immediate payment. Box 2/990.

**WANTED.** A supply of lactose, all grades, both in ported and English. Box 3/5. WANTED.

Prenacetin, glycerine, required og chemists. Offers to Box 2/307. manufacturing chemists.

WANTED. Spools and backing papers, 120, 62 127 sizes; must be in perfect condition with bac ing papers wound round spools. Payment of 3 per dozen by return. Enclose name and address parcel and give count. Gray's Camera Shop, Midd St., Taunton.

must be in perfect condition and rolled in bundl of one dozen each. Payment of 2s. per dozen teturn. Enclose name and address in parcel ar state number sent. Gray's Camera Shop, Midd St., Taunton. WANTED. Backing papers only, size 120, 620, 12

#### HOLIDAY ACCOMMODATION

FRENCH CHEMIST'S SON, 16-17 years, would like six weeks' holiday in London or near district in echange for similar holiday in France. Write Mariette Collin, 271 Boxley Rd., Maidstone, Ken

#### **PARTNERSHIPS**

QUALIFIED PARTNER wanted. Good shop with n opposition. London, Box 2/865.



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Wherever there is indication for the use of an intravenous anaesthetic 'Kemithal' Sodium can be used with advantage. Both for basal hypnosis and for surgical anaesthesia of short or prolonged duration it has proved to be a highly efficient and satisfactory agent. It has the advantage of a relatively high therapeutic quotient, it achieves anaesthesia without giving rise to undue respiratory depression and a number of workers have found that with 'Kemithal' Sodium the occurrence of laryngeal spasm is less frequent than with other

intravenous barbiturates.

Issued in ampoules of 1 gramme and 2 grammes in boxes of 5 and 25 together with sterile distilled water in 10 c.c. and 20 c.c. ampoules respectively; also 5 gramme ampoules of 'Kemithal' Sodium in boxes of 5 and 25.



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